

	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	20
15231637.p	PAPVNIVQEGGYCVVYKGRLI	NCGDVAVKKLLNN	LGOAEKEEPRVEAIGHVR	HKNLVLRLYCIEG	VNRLMLVYEYVNS	GNLQEQLHCAAGKQST	LTVEARMKILVCTAACAIAYLHEAIPKPVVHRDIKASNLIDDD	FNAKLSDFGLAKLGD												
15228043.p	PAPVNIVQEGGYCVVYKGRLV	NGCDEAVAKKLLNN	LGOAEKEEPRVEAIGHVR	HKNLVLRLYCIEG	VPRMLVYEYVNS	GNLQEQLHCAAMRQHGN	LTVEARMKILVCTAACAIAYLHEAIPKPVVHRDIKASNLIDDE	FNAKLSDFGLAKLGD												
AK100061.q	FAKCNVLEGGGYCVVYKGRLM	NGCDEAVAKKLLNN	VGOAEKEEPRVEAIGHVR	HKNLVLRLYCIEG	IPRMLVYEYVNN	GNLQEQLHCAAMSGGI	LTVEARMKILVCTAACAIAYLHEAIPKPVVHRDIKASNLIDDE	ENSKVSDFGFLAKLGD												
AK065494.p	PSRNVLQEGGYCVVYKGRLV	NGCDEAVAKKLLNN	MGOAEKEEPRVEAIGHVR	HKNLVLRLYCIEG	VNRMLVYEYVNN	GNLQEQLHCAAMRGHG	LTVEARMKILVCTAACAIAYLHEAIPKPVVHRDIKSSNLIDDE	ENSKVSDFGFLAKLGD												
AK103003.q	FSKDNLQEGGYCVVYKGRLI	NGCPDVAKKLLNN	MGOAEKEEPRVEAIGHVR	HKNLVLRLYCIEG	IPRMLVYEYVNN	GNLQEQLHCAAMRQHGV	LTVEARMKVLLGTAKALAYLHEAIPKPVVHRDIKSSNLIDDE	ENAKLSDFGFLAKLGD												
AK073774.q	FSKDNLQEGGYCVVYKGRLS	NGCPDVAKKLLNN	LGOAEKEEPRVEAIGHVR	HKNLVLRLYCIEG	TORMLMLVYEYVNN	GNLQEQLHCAAMRQHGS	LTVEARMLKILLGTAKALAYLHEAIPKPVVHRDIKSSNLIDDE	EDAKVSDFGFLAKLGD												
AK100396.p	PSKDNILQEGGYCVVYKGRLI	NGCPDVAKKLLNN	LGOAEKEEPRVEAIGHVR	HKNLVLRLYCIEG	TORMLMLVYEYVNN	GNLQEQLHCAAMSHRG	LTVEARMLKILLGTAKALAYLHEAIPKPVVHRDIKSSNLIDDE	FNAKVSDFGLAKLGD												
18405946.p	PSKDNILQEGGYCVVYKGRLM	NGCPDVAKKLLNN	LGOAEKEEPRVEAIGHVR	HKNLVLRLYCIEG	THRLMLVYEYVNN	GNLQEQLHCAAMRQHGY	LTVEARMLKILLGTAKALAYLHEAIPKPVVHRDIKSSNLIDDE	FNAKVSDFGLAKLGD												
15217511.p	PSKDNILQEGGYCVVYKGRLV	NGSLQDVAKKLLNN	LGOAEKEEPRVEAIGHVR	HKNLVLRLYCIEG	TINMLVYEYVNN	GNLQEQLHCAAMXHGY	LTVEARMLKMLGSKAALAYLHEAIPKPVVHRDIKSSNLIDDR	ENAKLSDFGFLAKLGD												
15238840.p	PSRNLIQDGYYCVVYKGRLV	NGCTPDVAKKLLNN	LGOAEKDERVEEIGHVR	HKNLVLRLYCIEG	TORMLMLVYEYVNN	GNLQEQLHCAAMXHGY	LTVEARMLKMLGSKAALAYLHEAIPKPVVHRDIKSSNLIDDR	ENAKLSDFGFLAKLGD												
15227459.p	DNEQNNGPQPFKCVMP	ESELVVAKEWEATL	TEERERRSSASIGMMH	PGOAEKDPYVVEIGHVR	TORMLMLVYEYVNN	GNLQEQLHCAAMXHGY	LTVEARMLKMLGSKAALAYLHEAIPKPVVHRDIKSSNLIDDR	LEAKLTeeyGFGLCA												
22331140.p	PSKDNILQEGGYCVVYKGRLV	NGKTPDVAKKLLNN	RGOAEKDERVEEIGHVR	HKNLVLRLYCIEG	TORMLMLVYEYVNN	GNLQEQLHCAAMXHGY	LTVEARMLKMLGSKAALAYLHEAIPKPVVHRDIKSSNLIDDR	EDAKVSDFGFLAKLGD												
48450017.p	FAAENVLQEGGYCVVYKGRL	DNTAVAKKLLNN	RGOAEKDERVEEIGHVR	HKNLVLRLYCIEG	ACRLMLVYEYBN	SNLDKMLHCGDDEISP	LWMDRMILHLLGTAKALAYLHEAIPKPVVHRDIKSSNLIDDR	WNARVSDFGFLAKLGD												
30690058.p	PSDDNMICQEGGYCVVYKGRLS	DGSQDVAKKLLNN	KGOAEKEEPRVEAIGKVR	HKNLVLRLYCIEG	SNLDKMLHCGDDEISP	LWMDRMILHLLGTAKALAYLHEAIPKPVVHRDIKSSNLIDDR	WNAKVSDFGLAKLGD													
62390013.q	PSBPNVQEGGYCVVYKGRLV	GGEVQDVAKKLLNN	KGOAEKEEPRVEAIGKVR	HKNLVLRLYCIEG	PKRMLVYEYVFN	LWMDRMILHLLGTAKALAYLHEAIPKPVVHRDIKSSNLIDDR	WNAKVSDFGLAKLGD													
AK064941.q	FADENVLQEGGYCVVYKGRLV	NGTQDVAKKLLNN	RGOAEKEEPRVEAIGKVR	HKNLVLRLYCIEG	NORMLMLVYEYDN	GNLQEQLHCAEVGPVSP	LWMDRMILHLLGTAKALAYLHEAIPKPVVHRDIKSSNLIDDR	WNAKVSDFGLAKLGD												
44990021.q	PADEBHVQEGGYCVVYKGRLV	DGCEAVAKKLLNN	RGOAEKEEPRVEAIGKVR	HKNLVLRLYCIEG	APRMLVYEYDN	GNLQEQLHCAEVGPVSP	LWMDRMILHLLGTAKALAYLHEAIPKPVVHRDIKSSNLIDDR	WNAKVSDFGLAKLGD												
15235432.p	PADEBNVQEGGYCVVYKGRLV	DKSMAVAKKLLNN	RGOAEKEEPRVEAIGKVR	HKNLVLRLYCIEG	APRMLVYEYDN	GNLQEQLHCAEVGPVSP	LWMDRMILHLLGTAKALAYLHEAIPKPVVHRDIKSSNLIDDR	WNAKVSDFGLAKLGD												
15224589.p	FADDNVLQKDSSTVYKGRLM	GTVTDVAKKLPSEN	SRYEDNDTIAKAELIAV	HKNVVLRLYCIEG	DEPVLMLVYEYAK	CDHBLHQSACRNP	LWWRMLKIIITQGVAKPLAYHEDIPKPHIHDIRESSLLDQ	WNAKVSDFGLAKLGD												
4537019.q	ABEPNVLQEGGYCVVYKGRLQ	NSAMAVAKKLLNN	RGOAEKEEPRVEAIGKVR	HKNVVLRLYCIEG	AYRMLVYEYDN	GNLQDWLHCDVGEVSP	LWWRMLKIIITQGVAKPLAYHEECLPKVWHRDIKSSNLIDDR	WNAKVSDFGLAKLGD												
15234142.p	ABEPNVLQEGGYCVVYKGRLV	DGTQDVAKKLLNN	RGOAEKEEPRVEAIGKVR	HKNVVLRLYCIEG	AYRMLVYEYDN	GNLQDWLHCDVGEVSP	LWWRMLKIIITQGVAKPLAYHEECLPKVWHRDIKSSNLIDDR	WNAKVSDFGLAKLGD												
15223428.p	BENVLQEGGYCVVYKGRLV	DGTQDVAKKLLNN	RGOAEKEEPRVEEIGKVR	HKNLVLRLYCIEG	AYRMLVYEYDN	GNLQEQLHCAEVGPVSP	LWDIRMLHLLGTAKALAYLHEECLPKVWHRDIKSSNLIDDR	WNAKVSDFGLAKLGD												
30678150.p	BENVLQEGGYCVVYKGRLV	DGTQDVAKKLLNN	RGOAEKEEPRVEEIGKVR	HKNLVLRLYCIEG	AYRMLVYEYDN	GNLQEQLHCAEVGPVSP	LWDIRMLHLLGTAKALAYLHEECLPKVWHRDIKSSNLIDDR	WNAKVSDFGLAKLGD												
28970005.q	FARSNIIGRQEGGYCVVYKGRLV	DGAEVAKKLLNN	AAADAAEAEVEVVAEIR	HVNVLRLYCIEG	ATtHORIVMDCHBN	GSLQDHHLFAGEEQ	LWMPVWRIALGAGMPLAHLGAGLHAGCPS	BEAVADPGLAKFAP												
15227189.p	PSRNINIIQRQEGGYCVVYKGRLV	DGTQDVAKKLLNN	AGCDANAEAEVEVIAIR	HVNVLRLYCIEG	ATtHORIVMDCHBN	GSLQDHHLFAGEEQ	LWMPVWRIALGAGMPLAHLGAGLHAGCPS	BEAVADPGLAKFAP												
56440033.q	PSNBNLQEGGYCVVYKGRLV	DGQVIAKAVKREAS	SOYIEFFEVQVQLSSP	HRNVNLRLYCIEG	SYNLVLYEYICN	KDSL	LWMPVWRIALGAGMPLAHLGAGLHAGCPS	BEAVADPGLAKFAP												
18423902.p	PSKGSFLAEGGFGSVHKGDL	TOQDRECESEVEVLSQAQ	HRNVMLLICLICVBD	GKRS	LGWSRQKIAVGAA	EEGCC	LWMPVWRIALGAGMPLAHLGAGLHAGCPS	BEAVADPGLAKFAP												
15222672.p	PSRANFLAEGGFGSVHKGDL	EGQIVAVAKOHEKVAS	TOQDRECESEVEVLSQAQ	HRNVMLLICLICVBD	TRRLMLVYEYICN	GSLQDHHLFAGEEQ	LWMPVWRIALGAGMPLAHLGAGLHAGCPS	BEAVADPGLAKFAP												
15231330.p	PSQANEFLAEGGYCVVYKGRL	ECQVAVAKOHKLAS	SOQDDEFCSEVEVLSQAQ	HRNVMLLICLICVBD	TRRLMLVYEYICN	GSLQDHHLFAGEEQ	LWMPVWRIALGAGMPLAHLGAGLHAGCPS	BEAVADPGLAKFAP												
51820015.q	PSQANEFLAEGGFGSVHKGDL	ECQVAVAKOHKLAS	SOQDDEFCSEVEVLSQAQ	HRNVMLLICLICVBD	TRRLMLVYEYICN	GSLQDHHLFAGEEQ	LWMPVWRIALGAGMPLAHLGAGLHAGCPS	BEAVADPGLAKFAP												
15219657.p	PSKRRVLRQKACSVFKGRG	IWRKAVALAKRDKKD	KESPKFCRCLMHTASLN	SPNVVLLLICLICVBD	QGLFLVYKVSG	GSLERLHLLKKKKRKTPLn	LWMSRMLKIIITQGVAKPLAYHEECLPKVWHRDIKSSNLIDDR	WNAKVSDFGLAKLGD												
15240345.p	PSKGRVLAEGGYCVVYKGRL	KACSYSVFKRCG	KESPKFCRCLMHTASLN	SPNVVLLLICLICVBD	QGLFLVYKVSG	GSLERLHLLKKKKRKTPLn	LWMSRMLKIIITQGVAKPLAYHEECLPKVWHRDIKSSNLIDDR	WNAKVSDFGLAKLGD												
83605633.q	FARCVWVYVYKGRLV	MLPSPF	WNALSPVVAAGS	HRNVMLLICLICVBD	QGLFLVYKVSG	GSLERLHLLKKKKRKTPLn	LWMSRMLKIIITQGVAKPLAYHEECLPKVWHRDIKSSNLIDDR	WNAKVSDFGLAKLGD												
AK067347.p	FSPDMLIGKGGTSVYKGRL	DAQEEVFNPELJL	DAQEEVFNPELJL	HRNVMLLICLICVBD	YSLFVLDYMLQ	GSLQDHHLFAGEEQ	LWMSRMLKIIITQGVAAGLHAGCPS	BEAVADPGLAKFAP												
83601222.q	FSSPNLQKICAHESVYKGRL	SAQDVAKKLSASA	VASNDPLFREVDLIIITL	HRNVMLLICLICVBD	YSLFVLDYMLQ	GSLQDHHLFAGEEQ	LWMSRMLKIIITQGVAAGLHAGCPS	BEAVADPGLAKFAP												
15236248.p	FSCDNVICKCCNCNVYKGRL	DOKGLAVAKLICKSS	KEAMTNTFVBESINIIISL	HRNVMLLICLICVBD	YSLFVLDYMLQ	GSLQDHHLFAGEEQ	LWMSRMLKIIITQGVAAGLHAGCPS	BEAVADPGLAKFAP												
15227291.p	FSLDENLQKCCNCNVYKGRL	DOKGLAVAKLICKSS	KEAMTNTFVBESINIIISL	HRNVMLLICLICVBD	YSLFVLDYMLQ	GSLQDHHLFAGEEQ	LWMSRMLKIIITQGVAAGLHAGCPS	BEAVADPGLAKFAP												
15223890.p	PSADNFQKCGGSERVFGCIS	NGRVAVAKLICKQTE	DVNDENFVEIIEIITLH	HRNVMLLICLICVBD	YSLFVLDYMLQ	GSLQDHHLFAGEEQ	LWMSRMLKIIITQGVAAGLHAGCPS	BEAVADPGLAKFAP												
22329713.p	PCADNEIKQCGSSERVFGCIP	NGRVAVAKLICKQTE	CVLFKDFVBLIDIIITLH	HRNVMLLICLICVBD	YSLFVLDYMLQ	GSLQDHHLFAGEEQ	LWMSRMLKIIITQGVAAGLHAGCPS	BEAVADPGLAKFAP												
15237563.q	FADENLQKCGSSERVFGCIP	DGRBLAVAKLICKQCL	DVLFKEFVBLIDIIITLH	HRNVMLLICLICVBD	YSLFVLDYMLQ	GSLQDHHLFAGEEQ	LWMSRMLKIIITQGVAAGLHAGCPS	BEAVADPGLAKFAP												
83590712.q	FADENLQKCGSSERVFGCIP	DGRBLAVAKLICKQCL	DVLFKEFVBLIDIIITLH	HRNVMLLICLICVBD	YSLFVLDYMLQ	GSLQDHHLFAGEEQ	LWMSRMLKIIITQGVAAGLHAGCPS	BEAVADPGLAKFAP												
83590694.q	FSPDPRITKCGGAEBVYKGCD	DGKEVAKVLKSSD	XVMEEVSEMEVLSVSS	HRNVMLLICLICVBD	YSLFVLDYMLQ	GSLQDHHLFAGEEQ	LWMSRMLKIIITQGVAAGLHAGCPS	BEAVADPGLAKFAP												
AK072656.q	FSPDPRITKCGGAEBVYKGCD	DGKEVAKVLKSSD	XVMEEVSEMEVLSVSS	HRNVMLLICLICVBD	YSLFVLDYMLQ	GSLQDHHLFAGEEQ	LWMSRMLKIIITQGVAAGLHAGCPS	BEAVADPGLAKFAP												
30698132.p	FNPBNMIGKCGHAEVYKGVL	DGETVAKLLTRIA	keBERVSDFLSBLCHIAV	HRNVMLLICLICVBD	YSLFVLDYMLQ	GSLQDHHLFAGEEQ	LWMSRMLKIIITQGVAAGLHAGCPS	BEAVADPGLAKFAP												
18416299.p	FNPBNMIGKCGHAEVYKGVL	NGETVAKLLMSHA	keEBERVSDFLSBLCHIAV	HRNVMLLICLICVBD	YSLFVLDYMLQ	GSLQDHHLFAGEEQ	LWMSRMLKIIITQGVAAGLHAGCPS	BEAVADPGLAKFAP												
15239245.p	FSPDNLQKCGGSERVFGCIP	NGCMLAVAKLICRGN	SEPIIVDPELSEMGMIA	HRNVMLLICLICVBD	YSLFVLDYMLQ	GSLQDHHLFAGEEQ	LWMSRMLKIIITQGVAAGLHAGCPS	BEAVADPGLAKFAP												
30687061.p	YSRNLNQEGGYAEVYKGMLA	DGQIVAVAKLILTRGS	AEMIMDYLSELIIIVD	HRNVMLLICLICVBD	YSLFVLDYMLQ	GSLQDHHLFAGEEQ	LWMSRMLKIIITQGVAAGLHAGCPS	BEAVADPGLAKFAP												
22330852.p	FSPDPRITKCGGAEBVYKGDL	EKGIIAVAKRLTKGT	PDETAEEFLSBLCHIAV	HRNVMLLICLICVBD	YSLFVLDYMLQ	GSLQDHHLFAGEEQ	LWMSRMLKIIITQGVAAGLHAGCPS	BEAVADPGLAKFAP												
51680007.q	FSPDPRITKCGGAEBVYKGDL	EKGIIAVAKRLTKGT	PDETAEEFLSBLCHIAV	HRNVMLLICLICVBD	YSLFVLDYMLQ	GSLQDHHLFAGEEQ	LWMSRMLKIIITQGVAAGLHAGCPS	BEAVADPGLAKFAP												
15242821.p	FHQCNIVQEGGYSEVYKGDL	DGRRIAVAKRLAKES	gDMNKEBFLFNLSLITS	HRNVMLLICLICVBD	YSLFVLDYMLQ	GSLQDHHLFAGEEQ	LWMSRMLKIIITQGVAAGLHAGCPS	BEAVADPGLAKFAP												
22300012.q	MTDNMVGRCRSEVYKGDL	DGRRIAVAKRLAKES	aaDKNKKEFDFLNLGTVGVR	HRNVMLLICLICVBD	YSLFVLDYMLQ	GSLQDHHLFAGEEQ	LWMSRMLKIIITQGVAAGLHAGCPS	BEAVADPGLAKFAP												
AK105794.p	FHECNVLQKCGSSERVFGCIP	DGRAVAVAKMLQMGAW	aCERRDRFLBLGTVGHR	HRNVMLLICLICVBD	YSLFVLDYMLQ	GSLQDHHLFAGEEQ	LWMSRMLKIIITQGVAAGLHAGCPS	BEAVADPGLAKFAP												
15224251.p	FSSPNLQKCGGFBVYKGRL	KNQEEIAVAKRITRGG	rDDEPRKEPLMIGIIGHGV	HRNVMLLICLICVBD	YSLFVLDYMLQ	GSLQDHHLFAGEEQ	LWMSRMLKIIITQGVAAGLHAGCPS	BEAVADPGLAKFAP												
47670022.q	FSKCNVQKCGHAKVYKGRL	GSEIVAVAKRISAFE	RGGEIVAVAKRISAFE	HRNVMLLICLICVBD	YSLFVLDYMLQ	GSLQDHHLFAGEEQ	LWMSRMLKIIITQGVAAGLHAGCPS	BEAVADPGLAKFAP												
AK102832.p	FSSPNLQKCGGFBVYKGRL	QGEIVAVAKRISAFE	QGEEREQAEVEIISRVH	HRNVMLLICLICVBD	YSLFVLDYMLQ	GSLQDHHLFAGEEQ	LWMSRMLKIIITQGVAAGLHAGCPS	BEAVADPGLAKFAP												
AK110196.q	FSECNLQKCGGFBVYKGRL	L-LhsRRQPVAKKLRRGS	ROGERERFRAEVDIISR	HRNVMLLICLICVBD	YSLFVLDYMLQ	GSLQDHHLFAGEEQ	LWMSRMLKIIITQGVAAGLHAGCPS	BEAVADPGLAKFAP												
83603447.q	FSPDPRITKCGGFBVYKGRL	DGNEAVAKLICKTES	KODNEFRAEVEIISRVH	HRNVMLLICLICVBD	YSLFVLDYMLQ	GSLQDHHLFAGEEQ	LWMSRMLKIIITQGVAAGLHAGCPS	BEAVADPGLAKFAP												
83601468.p	FSPDPRITKCGGFBVYKGRL	DGNEAVAKLICKTES	KODNEFRAEVEIISRVH	HRNVMLLICLICVBD	YSLFVLDYMLQ	GSLQDHHLFAGEEQ	LWMSRMLKIIITQGVAAGLHAGCPS	BEAVADPGLAKFAP												
37460011.q	FARDKLQEGGFQCVVFGDQ	DGKAVAVAKLICKGGG	GCGEREPAEVEIISRVH	HRNVMLLICLICVBD	YSLFVLDYMLQ	GSLQDHHLFAGEEQ	LWMSRMLKIIITQGVAAGLHAGCPS	BEAVADPGLAKFAP												
AK101096.q	FAAKNLQEGGFQCVVFGDQ	DGKAVAVAKLICKGGG	GCGEREPAEVEIISRVH	HRNVMLLICLICVBD	YSLFVLDYMLQ	GSLQDHHLFAGEEQ	LWMSRMLKIIITQGVAAGLHAGCPS	BEAVADPGLAKFAP												
29970004.q	FSANLNLQEGGFQCVVFGDQ	DGKAVAVAKLICKGGG	GCGEREPAEVEIISRVH	HRNVMLLICLICVBD	YSLFVLDYMLQ	GSLQDHHLFAGEEQ	LWMSRMLKIIITQGVAAGLHAGCPS	BEAVADPGLAKFAP												
AK101943.q	FAEONLNLQEGGFQCVVFGDQ	DNRIKAVAKLICKIG	NGCQEREKAEVDFLISRVH	HRNVMLLICLICVBD	YSLFVLDYMLQ	GSLQDHHLFAGEEQ	LWMSRMLKIIITQGVAAGLHAGCPS	BEAVADPGLAKFAP												
15221470.p	FSEONLNLQEGGFQCVVFGDQ	DNRIKAVAKLICKIG	NGCQEREKAEVDFLISRVH	HRNVMLLICLICVBD	YSLFVLDYMLQ	GSLQDHHLFAGEEQ	LWMSRMLKIIITQGVAAGLHAGCPS	BEAVADPGLAKFAP												
15222649.p	FSEPNLQKCGGFBVYKGRL	DERVVAVAKLICKIGG	GODREFKAEVEIISRVH	HRNVMLLICLICVBD	YSLFVLDYMLQ	GSLQDHHLFAGEEQ	LWMSRMLKIIITQGVAAGLHAGCPS	BEAVADPGLAKFAP												
15240497.p	FSEPNLQKCGGFBVYKGRL	DSEKPNLQKCGGFBVYKGRL	SOQEREKAEVEIISRVH	HRNVMLLICLICVBD	YSLFVLDYMLQ	GSLQDHHLFAGEEQ	LWMSRMLKIIITQGVAAGLHAGCPS	BEAVADPGLAKFAP												
15218591.p	FCKSFFVQEGGFQCVVFGDQ	DGKAVAVAKLICKGS	ABCEPQKAEVEIISRVH	HRNVMLLICLICVBD	YSLFVLDYMLQ	GSLQDHHLFAGEEQ	LWMSRMLKIIITQGVAAGLHAGCPS	BEAVADPGLAKFAP												
15220786.p	PARKNIQEGGFQCVVFGDQ	DGKAVAVAKLICKGS	GODREFKAEVEIISRVH	HRNVMLLICLICVBD	YSLFVLDYMLQ	GSLQDHHLFAGEEQ	LWMSRMLKIIITQGVAAGLHAGCPS	BEAVADPGLAKFAP												
15223160.p	FSKCNILQEGGFQCVVFGDQ	DGKAVAVAKLICKGS	GODREFKAEVEIISRVH	HRNVMLLICLICVBD	YSLFVLDYMLQ	GSLQDHHLFAGEEQ	LWMSRMLKIIITQGVAAGLHAGCPS	BEAVADPGLAKFAP												
AK100169.q	FSRDNVQEGGFQCVVFGDQ	DGKAVAVAKLICKGS	GODREFKAEVEIISRVH	HRNVMLLICLICVBD	YSLFVLDYMLQ	GSLQDHHLFAGEEQ	LWMSRMLKIIITQGVAAGLHAGCPS	BEAVADPGLAKFAP												
AK070389.p	FSEPNLQKCGGFBVYKGRL	DGKAVAVAKLICKGS	GODREFKAEVEIISRVH	HRNVMLLICLICVBD	YSLFVLDYMLQ	GSLQDHHLFAGEEQ	LWMSRMLKIIITQGVAAGLHAGCPS	BEAVADPGLAKFAP												
22329101.p	FSEPNLQKCGGFBVYKGRL	DGKAVAVAKLICKGS	YQEREERQAEVEDLSRVH	HRNVMLLICLICVBD	YSLFVLDYMLQ	GSLQDHHLFAGEEQ	LWMSRMLKIIITQGVAAGLHAGCPS	BEAVADPGLAKFAP												
15230130.p	FSEANLNLQEGGFQCVVFGDQ	SGKEIVAVAKLICKGS	GODREFQAEVEIISRVH	HRNVMLLICLICVBD	YSLFVLDYMLQ	GSLQDHHLFAGEEQ	LWMSRMLKIIITQGVAAGLHAGCPS	BEAVADPGLAKFAP												
15230108.p	FSEANLNLQEGGFQCVVFGDQ	SGKEIVAVAKLICKGS	SGCQEREKAEVEIISRVH	HRNVMLLICLICVBD	YSLFVLDYMLQ	GSLQDHHLFAGEEQ	LWMSRMLKIIITQGVAAGLHAGCPS	BEAVADPGLAKFAP												
15230129.p	FSEANLNLQEGGFQCVVFGDQ	SGKEIVAVAKLICKGS	SGCQEREKAEVEIISRVH	HRNVMLLICLICVBD	YSLFVLDYMLQ	GSLQDHHLFAGEEQ	LWMSRMLKIIITQGVAAGLHAGCPS	BEAVADPGLAKFAP												
15218207.p	FSNPNLNLQEGGFQCVVFGDQ	DGKAVAVAKLICKGS	GODREFQAEVEIISRVH	HRNVMLLICLICVBD	YSLFVLDYMLQ	GSLQDHHLFAGEEQ	LWMSRMLKIIITQGVAAGLHAGCPS	BEAVADPGLAKFAP												
83531073.q	FSDANLNLQEGGFQCVVFGDQ	TCKEIVAVAKLICKGS	GODREFQAEVEIISRVH	HRNVMLLICLICVBD	YSLFVLDYMLQ	GSLQDHHLFAGEEQ	LWMSRMLKIIITQGVAAGLHAGCPS	BEAVADPGLAKFAP												
AK103247.q	FSDANLNLQEGGFQCVVFGDQ	NGTEIVAVAKLICKGS	GODREFQAEVEIISRVH	HRNVMLLICLICVBD	YSLFVLDYMLQ	GSLQDHHLFAGEEQ	LWMSRMLKIIITQGVAAGLHAGCPS	BEAVADPGLAKFAP												
15224182.p	FIDANLNLQEGGFQCVVFGDQ	SGKEIVAVAKLICKGS	GODREFQAEVEIISRVH	HRNVMLLICLICVBD	YSLFVLDYMLQ	GSLQDHHLFAGEEQ	LWMSRMLKIIITQGVAAGLHAGCPS	BEAVADPGLAKFAP												
25580016.q	FAPBNLNLQEGGFQCVVFGDQ	SGKEIVAVAKLICKGS	GODREFQAEVEIISRVH	HRNVMLLICLICVBD	YSLFVLDYMLQ															

30690042.p FQGQNLIGQGGFQVHKGVLP - SGKEAVAKSLKLGS GQCREFQAEVDIISRVH HRHLVLIVCYCISG GORLLVYEFIPN NTLEFHLLHKGRPV DDPWPTRKIALGSAQGLAYLHEDCPRIIHRDIKAANILLDESENGKVADEFGGLAKLQS
15230209.p FSQSRLLQGGFCVWKHGIDP NCKEIAVAKSLKAGS GOCERFQAEVSIISRVH HRHLVLIVCYCAG GORMLVYEFIPN DTELEHLLHKCSGKV DDPWPTRKIALGSAKGLAYLHEDCPRIIHRDIKASNILLDES
15222081.p FSKDRLLQGGFCVWKHGIDP NCKEIAVAKSLKAGS GOCERFQAEVSIISRVH HRHLVLIVCYCAG GORLLVYEFIPN DTELEHLLHKCSGKV DDPWPTRKIALGSAKGLAYLHEDCPRIIHRDIKASNILLDES
15231654.p FRNSSLIGFCVYVKYGRIS TGSQIAVAKLDQSG IODKEFPEVIMLSSLH HQLQEEFPEVIMLSSLH GORLLVYEFIPN DTELEHLLHKCSGKV DDPWPTRKIALGAAKGGLAFGLHNEAPPVYIYDLTKTSNILLDDESENGKVADEFGGLAKLQS
15223033.p FREGNIIGKGGFQVYKGIDP SGQCVAVAKLONPDG HQLQEEFPEVIMLSSLH HQLQEEFPEVIMLSSLH GORLLVYEFIPN DTELEHLLHKCSGKV DDPWPTRKIALGAAKGGLAFGLHNEAPPVYIYDLTKTSNILLDDESENGKVADEFGGLAKLQS
15217992.p PREVNLLIGEGGFQVYVKYGRIS TGSQCVAVAKLONPDG IODKEFPEVIMLSSLH HQLQEEFPEVIMLSSLH GORLLVYEFIPN DTELEHLLHKCSGKV DDPWPTRKIALGAAKGGLAFGLHNEAPPVYIYDLTKTSNILLDDESENGKVADEFGGLAKLQS
AK102717.q FNEANEQEGGFQVYVKYGRIN COMAVAKLITRDG VQCRNREFLVEVIMLTLWN HQLQEEFPEVIMLSSLH GORLLVYEFIPN DTELEHLLHKCSGKV DDPWPTRKIALGAAKGGLAFGLHNEAPPVYIYDLTKTSNILLDDESENGKVADEFGGLAKLQS
AK100639.q FSNLNLIGEGGFQVYVKYGRIDP EINEEVAKOLDKDG FOCNRREFLVEVIMLTLWN HQLQEEFPEVIMLSSLH GORLLVYEFIPN DTELEHLLHKCSGKV DDPWPTRKIALGAAKGGLAFGLHNEAPPVYIYDLTKTSNILLDDESENGKVADEFGGLAKLQS
AK071077.p FSPBNLLIGEGGFQVYVKYGRIDP DTKEVIAVAKLIDKDQG LOCRNREFLVEVIMLTLWN HQLQEEFPEVIMLSSLH GORLLVYEFIPN DTELEHLLHKCSGKV DDPWPTRKIALGAAKGGLAFGLHNEAPPVYIYDLTKTSNILLDDESENGKVADEFGGLAKLQS
AK070226.q FRAESLLIGEGGFQVYVKYGRIS IKGTVTEAIAVAKLDRNG MOCRNREFLVEVIMLTLWN HQLQEEFPEVIMLSSLH GORLLVYEFIPN DTELEHLLHKCSGKV DDPWPTRKIALGAAKGGLAFGLHNEAPPVYIYDLTKTSNILLDDESENGKVADEFGGLAKLQS
15232294.p FNPDNLLIGEGGFQVYVKYGRIDP TPEQCVAVAKLIDKDQG YOCCRREFLVEVIMLTLWN HQLQEEFPEVIMLSSLH GORLLVYEFIPN DTELEHLLHKCSGKV DDPWPTRKIALGAAKGGLAFGLHNEAPPVYIYDLTKTSNILLDDESENGKVADEFGGLAKLQS
61980009.q FRSRDLIGEGGFQVYVKYGRIS NGCVAVAKLDRNG FOCNRREFLVEVIMLTLWN HQLQEEFPEVIMLSSLH GORLLVYEFIPN DTELEHLLHKCSGKV DDPWPTRKIALGAAKGGLAFGLHNEAPPVYIYDLTKTSNILLDDESENGKVADEFGGLAKLQS
61980010.q FHPDCIVEGGFQVYVKYGRIDP DCGQCVAVAKOMERNG FOCNRREFLVEVIMLTLWN HQLQEEFPEVIMLSSLH GORLLVYEFIPN DTELEHLLHKCSGKV DDPWPTRKIALGAAKGGLAFGLHNEAPPVYIYDLTKTSNILLDDESENGKVADEFGGLAKLQS
18397825.p FRCCLLIGEGGFQVYVKYGRIS KTGCVAVAKLIDKDQG LOCRNREFLVEVIMLTLWN HQLQEEFPEVIMLSSLH GORLLVYEFIPN DTELEHLLHKCSGKV DDPWPTRKIALGAAKGGLAFGLHNEAPPVYIYDLTKTSNILLDDESENGKVADEFGGLAKLQS
15230190.p FROBLIGEGGFQVYVKYGRIS NPAQCVAVAKLDRNG LOCRNREFLVEVIMLTLWN HQLQEEFPEVIMLSSLH GORLLVYEFIPN DTELEHLLHKCSGKV DDPWPTRKIALGAAKGGLAFGLHNEAPPVYIYDLTKTSNILLDDESENGKVADEFGGLAKLQS
15235623.p FROBLIGEGGFQVYVKYGRIS KTGCVAVAKLDRNG LOCRNREFLVEVIMLTLWN HQLQEEFPEVIMLSSLH GORLLVYEFIPN DTELEHLLHKCSGKV DDPWPTRKIALGAAKGGLAFGLHNEAPPVYIYDLTKTSNILLDDESENGKVADEFGGLAKLQS
15237361.p FROBLIGEGGFQVYVKYGRIS STCGCVAVAKLDRNG LEHQNKEFQEAVLSLGOLD HQLQEEFPEVIMLTLWN HQLQEEFPEVIMLSSLH GORLLVYEFIPN DTELEHLLHKCSGKV DDPWPTRKIALGAAKGGLAFGLHNEAPPVYIYDLTKTSNILLDDESENGKVADEFGGLAKLQS
15232987.p FROBLIGEGGFQVYVKYGRIS STCGCVAVAKLDRNG LEHQNKEFQEAVLSLGOLD HQLQEEFPEVIMLTLWN HQLQEEFPEVIMLSSLH GORLLVYEFIPN DTELEHLLHKCSGKV DDPWPTRKIALGAAKGGLAFGLHNEAPPVYIYDLTKTSNILLDDESENGKVADEFGGLAKLQS
42110005.q FPTPYNLIGEGGFQVYVKYGRIDP KTGTQCVVAKLDRNG FOCNRREFLVEVIMLTLWN HQLQEEFPEVIMLSSLH GORLLVYEFIPN DTELEHLLHKCSGKV DDPWPTRKIALGAAKGGLAFGLHNEAPPVYIYDLTKTSNILLDDESENGKVADEFGGLAKLQS
27260970.p FPHPSVQIQQRHEVYVAAAG L- RPLRKRPHLV 1GEPCCREPAALRSLAVWP FPLNLAIVLSEGGERBVLYVERASAGSV GL- PPLNLYHGTDAPL DDPWPTRKIALGAAKGGLAFGLHNEAPPVYIYDLTKTSNILLDDESENGKVADEFGGLAKLQS
15237373.p FNQRRILIGSRLVYVVAAPL DHNKLNVAVAKRIRHPL V1SKPGFESTVINSLSSSH HNPNVILILSEGGERBVLYVERASAGSV GL- PPLNLYHGTDAPL DDPWPTRKIALGAAKGGLAFGLHNEAPPVYIYDLTKTSNILLDDESENGKVADEFGGLAKLQS
30696629.p FSDMDCMIGEFCVYVKYGRIDP SLNQCVAVAKLDRNG LOCRNREFEAVVIMLSSLH QPPLNLAIVLSEGGERBVLYVERASAGSV GL- PPLNLYHGTDAPL DDPWPTRKIALGAAKGGLAFGLHNEAPPVYIYDLTKTSNILLDDESENGKVADEFGGLAKLQS
AK067283.p FSTDCMIGEFCVYVKYGRIDP DROCVAVAKLDRNG LOCRNREFLVEVIMLTLWN HNPNVILILSEGGERBVLYVERASAGSV GL- PPLNLYHGTDAPL DDPWPTRKIALGAAKGGLAFGLHNEAPPVYIYDLTKTSNILLDDESENGKVADEFGGLAKLQS
AK101371.q FRODCLLIGEGGFQVYVKYGRIDP TGQCVAVAKLDRNG LOCRNREFLVEVIMLTLWN HNPNVILILSEGGERBVLYVERASAGSV GL- PPLNLYHGTDAPL DDPWPTRKIALGAAKGGLAFGLHNEAPPVYIYDLTKTSNILLDDESENGKVADEFGGLAKLQS
AK100827.q FRODCLLIGEGGFQVYVKYGRIDP NGCVAVAKLDRNG LOCRNREFLVEVIMLTLWN HNPNVILILSEGGERBVLYVERASAGSV GL- PPLNLYHGTDAPL DDPWPTRKIALGAAKGGLAFGLHNEAPPVYIYDLTKTSNILLDDESENGKVADEFGGLAKLQS
AK072806.q FRCVDCLLIGEGGFQVYVKYGRIDP TVDQCVAVAKLDRNG LOCRNREFLVEVIMLTLWN HNPNVILILSEGGERBVLYVERASAGSV GL- PPLNLYHGTDAPL DDPWPTRKIALGAAKGGLAFGLHNEAPPVYIYDLTKTSNILLDDESENGKVADEFGGLAKLQS
30679773.p FRKDCLLIGEGGFQVYVKYGRIDP STSCTAIAKLDHNG TTGQCVAVAKLDRNG LOCRNREFLVEVIMLTLWN HNPNVILILSEGGERBVLYVERASAGSV GL- PPLNLYHGTDAPL DDPWPTRKIALGAAKGGLAFGLHNEAPPVYIYDLTKTSNILLDDESENGKVADEFGGLAKLQS
15238866.p FRCDCLLIGEGGFQVYVKYGRIDP STCGCVAVAKLDRNG LOCRNREFLVEVIMLTLWN HNPNVILILSEGGERBVLYVERASAGSV GL- PPLNLYHGTDAPL DDPWPTRKIALGAAKGGLAFGLHNEAPPVYIYDLTKTSNILLDDESENGKVADEFGGLAKLQS
15240038.p FHPDTFLIGEGGFQVYVKYGRIDP STCGCVAVAKLDRNG LOCRNREFLVEVIMLTLWN HNPNVILILSEGGERBVLYVERASAGSV GL- PPLNLYHGTDAPL DDPWPTRKIALGAAKGGLAFGLHNEAPPVYIYDLTKTSNILLDDESENGKVADEFGGLAKLQS
AK063305.q FRSBDFCFIGEGGFQVYVKYGRIDP GTGQCVAVAKLDRNG TOCNCREFLVEVIMLTLWN HNPNVILILSEGGERBVLYVERASAGSV GL- PPLNLYHGTDAPL DDPWPTRKIALGAAKGGLAFGLHNEAPPVYIYDLTKTSNILLDDESENGKVADEFGGLAKLQS
49010005.q FRSBDFCEIGEGGFQVYVKYGRIDP NGCVAVAKLDRNG LOCRNREFLVEVIMLTLWN HNPNVILILSEGGERBVLYVERASAGSV GL- PPLNLYHGTDAPL DDPWPTRKIALGAAKGGLAFGLHNEAPPVYIYDLTKTSNILLDDESENGKVADEFGGLAKLQS
AK067054.q FRKDCLLIGEGGFQVYVKYGRIDP NGCVAVAKLDRNG LOCRNREFLVEVIMLTLWN HNPNVILILSEGGERBVLYVERASAGSV GL- PPLNLYHGTDAPL DDPWPTRKIALGAAKGGLAFGLHNEAPPVYIYDLTKTSNILLDDESENGKVADEFGGLAKLQS
15226901.p FKSDFCLLIGEGGFQVYVKYGRIDP KINQCVAVAKLDRNG ACCREFVVEVILSLSLAD HNPNVILILSEGGERBVLYVERASAGSV GL- PPLNLYHGTDAPL DDPWPTRKIALGAAKGGLAFGLHNEAPPVYIYDLTKTSNILLDDESENGKVADEFGGLAKLQS
15223024.p FRSDCFLIGEGGFQVYVKYGRIDP KLDQCVAVAKLDRNG VOCREFVVEVILSLSLAD HNPNVILILSEGGERBVLYVERASAGSV GL- PPLNLYHGTDAPL DDPWPTRKIALGAAKGGLAFGLHNEAPPVYIYDLTKTSNILLDDESENGKVADEFGGLAKLQS
AK105569.p FSDDRFLIGEGGFQVYVKYGRIDP NSQEVAVAKLNLQG NOCDREFEAVASVLSKLH LOCRNREFLVEVIMLTLWN HNPNVILILSEGGERBVLYVERASAGSV GL- PPLNLYHGTDAPL DDPWPTRKIALGAAKGGLAFGLHNEAPPVYIYDLTKTSNILLDDESENGKVADEFGGLAKLQS
30684071.p -mCQJLNUVLR IR RMLMPLVYVNLKV Y- VQCHKE INVEVNLGVVNN HNPNVILILSEGGERBVLYVERASAGSV GL- PPLNLYHGTDAPL DDPWPTRKIALGAAKGGLAFGLHNEAPPVYIYDLTKTSNILLDDESENGKVADEFGGLAKLQS
30687780.p PSRSUMTIGEGGFQVFRGVNQDOPRSRKIDIAVAKLDRNG LOCHKEV INVEVNLGVVNE HNPNVILILSEGGERBVLYVERASAGSV GL- PPLNLYHGTDAPL DDPWPTRKIALGAAKGGLAFGLHNEAPPVYIYDLTKTSNILLDDESENGKVADEFGGLAKLQS
15242720.p PSRSGMIGECCFGQVVFGRIDP KLEEdPSSKKIEAVAKLDRNG LOCHKEV INVEVNLGVVNE HNPNVILILSEGGERBVLYVERASAGSV GL- PPLNLYHGTDAPL DDPWPTRKIALGAAKGGLAFGLHNEAPPVYIYDLTKTSNILLDDESENGKVADEFGGLAKLQS
15232764.p PSRSVMIGECCFGQVFRGVNQDRDSSVKEVAKLDRNG LOCHKEV INVEVNLGVVNE HNPNVILILSEGGERBVLYVERASAGSV GL- PPLNLYHGTDAPL DDPWPTRKIALGAAKGGLAFGLHNEAPPVYIYDLTKTSNILLDDESENGKVADEFGGLAKLQS
AK062188.q PSRSVLMVIGEGGFQCVYRKVGSDEPIERTEIAVAKLDRNG LOCOKEV INVEVNLGVVNE HNPNVILILSEGGERBVLYVERASAGSV GL- PPLNLYHGTDAPL DDPWPTRKIALGAAKGGLAFGLHNEAPPVYIYDLTKTSNILLDDESENGKVADEFGGLAKLQS
40150016.q PSRSVIVLIGEGGFQCVYRKVGT RVLVEPRRSVEVAKLDRNG LOCHKEV INVEVNLGVVNE HNPNVILILSEGGERBVLYVERASAGSV GL- PPLNLYHGTDAPL DDPWPTRKIALGAAKGGLAFGLHNEAPPVYIYDLTKTSNILLDDESENGKVADEFGGLAKLQS
15238002.p PSRSVIVLIGEGGFQCVYRKVGT RVLVEPRRSVEVAKLDRNG LOCHKEV INVEVNLGVVNE HNPNVILILSEGGERBVLYVERASAGSV GL- PPLNLYHGTDAPL DDPWPTRKIALGAAKGGLAFGLHNEAPPVYIYDLTKTSNILLDDESENGKVADEFGGLAKLQS
30684132.p PSRSVIVLIGEGGFQCVYRKVGT RGDSSDPLPVVAKLNLQG LOCHKEV INVEVNLGVVNE HNPNVILILSEGGERBVLYVERASAGSV GL- PPLNLYHGTDAPL DDPWPTRKIALGAAKGGLAFGLHNEAPPVYIYDLTKTSNILLDDESENGKVADEFGGLAKLQS
AK070024.q PSRAQKLGEGGFQCVYRKVGRdKAADRLAVAVAKLDRNG LOCHKEV INVEVNLGVVNE HNPNVILILSEGGERBVLYVERASAGSV GL- PPLNLYHGTDAPL DDPWPTRKIALGAAKGGLAFGLHNEAPPVYIYDLTKTSNILLDDESENGKVADEFGGLAKLQS
AK105337.q PSRALKGEGGFQSVYRAFRAGGGGRVVLAVAKLNRQSR LOCHKEV INVEVNLGVVNE HNPNVILILSEGGERBVLYVERASAGSV GL- PPLNLYHGTDAPL DDPWPTRKIALGAAKGGLAFGLHNEAPPVYIYDLTKTSNILLDDESENGKVADEFGGLAKLQS
AK101160.q PSRSLRKLIGEGGFQCVYRKVGT RPLGGPAGCETVAKLNLQNS ROCHKEV INVEVNLGVVNE HNPNVILILSEGGERBVLYVERASAGSV GL- PPLNLYHGTDAPL DDPWPTRKIALGAAKGGLAFGLHNEAPPVYIYDLTKTSNILLDDESENGKVADEFGGLAKLQS
83524246.q ECRCRFRFVCLVLRVAVAKLDRNG EHVVHVVGEAEVGEll ggeh@GAKEH EHVHVVGEAEVGEll ggeh@GAKEH HNPNVILILSEGGERBVLYVERASAGSV GL- PPLNLYHGTDAPL DDPWPTRKIALGAAKGGLAFGLHNEAPPVYIYDLTKTSNILLDDESENGKVADEFGGLAKLQS
AK064119.p FSPLLMVYIGEGGFQCVYRKVGT RPLGGPAGCETVAKLDRNG ROCHKEV INVEVNLGVVNE HNPNVILILSEGGERBVLYVERASAGSV GL- PPLNLYHGTDAPL DDPWPTRKIALGAAKGGLAFGLHNEAPPVYIYDLTKTSNILLDDESENGKVADEFGGLAKLQS
62740001.q PSRSBFLIGEGGFQCVYRKVGT RPLGGPAGCETVAKLDRNG MOCHKEV INVEVNLGVVNE HNPNVILILSEGGERBVLYVERASAGSV GL- PPLNLYHGTDAPL DDPWPTRKIALGAAKGGLAFGLHNEAPPVYIYDLTKTSNILLDDESENGKVADEFGGLAKLQS
AK103249.q PSGDQCYSSELTSTSYYKARFDDFTDPTKIEAVLRLSS TOSLKEEKITQVNLASLQ LOCHKEV INVEVNLGVVNE HNPNVILILSEGGERBVLYVERASAGSV GL- PPLNLYHGTDAPL DDPWPTRKIALGAAKGGLAFGLHNEAPPVYIYDLTKTSNILLDDESENGKVADEFGGLAKLQS
15231963.p PSRSCRVMEVLSSMWSYMASEGK DEASTSGLKYYKLLRATVv- 1hvTQISREFINVVNLQLOHNOCLKLVYHARD-SDTRFLKVRVYHARAL HNPNVILILSEGGERBVLYVERASAGSV GL- PPLNLYHGTDAPL DDPWPTRKIALGAAKGGLAFGLHNEAPPVYIYDLTKTSNILLDDESENGKVADEFGGLAKLQS
15220535.p FSCNLLIGEGGFQCVYRKVGT DPLRQLSKAQPVAVKLDIEG LCHKEV INVEVNLGVQOLK HNPNVILILSEGGERBVLYVERASAGSV GL- PPLNLYHGTDAPL DDPWPTRKIALGAAKGGLAFGLHNEAPPVYIYDLTKTSNILLDDESENGKVADEFGGLAKLQS
AK066081.q -mCQJLNUVLR SS MADMACVQAEVIELGOFR HNPNVILILSEGGERBVLYVERASAGSV GL- PPLNLYHGTDAPL DDPWPTRKIALGAAKGGLAFGLHNEAPPVYIYDLTKTSNILLDDESENGKVADEFGGLAKLQS
AK066529.p FSSSYLIGEGGFQAVHKGVLDMPGAVAKLDRNG LOCHKEV INVEVNLGVVNE HNPNVILILSEGGERBVLYVERASAGSV GL- PPLNLYHGTDAPL DDPWPTRKIALGAAKGGLAFGLHNEAPPVYIYDLTKTSNILLDDESENGKVADEFGGLAKLQS
15238553.p FSSSNEIGEGGFQCVYRKVGT DLRpGLKAQPVAVKLDLG LOCHKEFREFMDEVWLQGLKLK HNPNVILILSEGGERBVLYVERASAGSV GL- PPLNLYHGTDAPL DDPWPTRKIALGAAKGGLAFGLHNEAPPVYIYDLTKTSNILLDDESENGKVADEFGGLAKLQS
15225019.p FSSSNEIGEGGFQCVYRKVGT DLRpGLKAQPVAVKLDLG LOCHKEFREFMDEVWLQGLKL HNPNVILILSEGGERBVLYVERASAGSV GL- PPLNLYHGTDAPL DDPWPTRKIALGAAKGGLAFGLHNEAPPVYIYDLTKTSNILLDDESENGKVADEFGGLAKLQS
15225277.p FSRNLMIGEGGFQCVYRKVGT DLRpGLKAQPVAVKLDLG LOCHKEFREFMDEVWLQGLKL HNPNVILILSEGGERBVLYVERASAGSV GL- PPLNLYHGTDAPL DDPWPTRKIALGAAKGGLAFGLHNEAPPVYIYDLTKTSNILLDDESENGKVADEFGGLAKLQS
15218526.p PSKYNEIGEGGFQCVYRKVGT DLRpGLKAQPVAVKLDLG COCHKEFREFMDEVWLQGLKL HNPNVILILSEGGERBVLYVERASAGSV GL- PPLNLYHGTDAPL DDPWPTRKIALGAAKGGLAFGLHNEAPPVYIYDLTKTSNILLDDESENGKVADEFGGLAKLQS
AK106955.q FSRANYLIGEGGFQCVYRKVGT DLRpGLKAQPVAVKLDLG COCHKEFREFMDEVWLQGLKL HNPNVILILSEGGERBVLYVERASAGSV GL- PPLNLYHGTDAPL DDPWPTRKIALGAAKGGLAFGLHNEAPPVYIYDLTKTSNILLDDESENGKVADEFGGLAKLQS
50140007.p FSRANYLIGEGGFQCVYRKVGT DLRpGLKAQPVAVKLDLG COCHKEFREFMDEVWLQGLKL HNPNVILILSEGGERBVLYVERASAGSV GL- PPLNLYHGTDAPL DDPWPTRKIALGAAKGGLAFGLHNEAPPVYIYDLTKTSNILLDDESENGKVADEFGGLAKLQS
AK068330.q ELDDNFNIGEGGFQCVYRKVGT VAKpGLKAQPVAVKLDPEG AOCHEKE LSEVIEVILGOLR HNPNVILILSEGGERBVLYVERASAGSV GL- PPLNLYHGTDAPL DDPWPTRKIALGAAKGGLAFGLHNEAPPVYIYDLTKTSNILLDDESENGKVADEFGGLAKLQS
AK071281.q FVSGNLFNIGEGGFQCVYRKVGT VAKpGLKAQPVAVKLDPEG AOCHEKE LSEVIEVILGOLR HNPNVILILSEGGERBVLYVERASAGSV GL- PPLNLYHGTDAPL DDPWPTRKIALGAAKGGLAFGLHNEAPPVYIYDLTKTSNILLDDESENGKVADEFGGLAKLQS
40290009.p FSVSNFNVIGEGGFQCVYRKVGT VAKpGLKAQPVAVKLDPEG AOCHEKE LSEVIEVILGOLR HNPNVILILSEGGERBVLYVERASAGSV GL- PPLNLYHGTDAPL DDPWPTRKIALGAAKGGLAFGLHNEAPPVYIYDLTKTSNILLDDESENGKVADEFGGLAKLQS
AK107046.q FMSMNFNIGEGGFQCVYRKVGT VAKpGLKAQPVAVKLDPEG TQCHKE LSEVIEVILGOLR HNPNVILILSEGGERBVLYVERASAGSV GL- PPLNLYHGTDAPL DDPWPTRKIALGAAKGGLAFGLHNEAPPVYIYDLTKTSNILLDDESENGKVADEFGGLAKLQS
AK072944.q FSPDQIIGEGGFQCVYRKVGT H- CAVAVAKLONPL HNPNVILILSEGGERBVLYVERASAGSV GL- PPLNLYHGTDAPL DDPWPTRKIALGAAKGGLAFGLHNEAPPVYIYDLTKTSNILLDDESENGKVADEFGGLAKLQS
22325532.p FSPDQIIGEGGFQCVYRKVGT DvrgfGK51VAKLDRNG FOCHEKE LSEVIEVILGOLR HNPNVILILSEGGERBVLYVERASAGSV GL- PPLNLYHGTDAPL DDPWPTRKIALGAAKGGLAFGLHNEAPPVYIYDLTKTSNILLDDESENGKVADEFGGLAKLQS
AK100479.p FPDYDILIGEGGFQCVYRKVGT DvrgfGK51VAKLDRNG FOCHEKE LSEVIEVILGOLR HNPNVILILSEGGERBVLYVERASAGSV GL- PPLNLYHGTDAPL DDPWPTRKIALGAAKGGLAFGLHNEAPPVYIYDLTKTSNILLDDESENGKVADEFGGLAKLQS
AK058504.q FPDYDILIGEGGFQCVYRKVGT DvrgfGK51VAKLDRNG FOCHEKE LSEVIEVILGOLR HNPNVILILSEGGERBVLYVERASAGSV GL- PPLNLYHGTDAPL DDPWPTRKIALGAAKGGLAFGLHNEAPPVYIYDLTKTSNILLDDESENGKVADEFGGLAKLQS
AK071281.q FRADYVIGEGGFQCVYRKVGT DvrgfGK51VAKLDRNG FOCHEKE LSEVIEVILGOLR HNPNVILILSEGGERBVLYVERASAGSV GL- PPLNLYHGTDAPL DDPWPTRKIALGAAKGGLAFGLHNEAPPVYIYDLTKTSNILLDDESENGKVADEFGGLAKLQS
30679085.p FPDYDILIGEGGFQCVYRKVGT DvrgfGK51VAKLDRNG FOCHEKE LSEVIEVILGOLR HNPNVILILSEGGERBVLYVERASAGSV GL- PPLNLYHGTDAPL DDPWPTRKIALGAAKGGLAFGLHNEAPPVYIYDLTKTSNILLDDESENGKVADEFGGLAKLQS
15241220.p FPDQDVLIGEGGFQCVYRKVGT KDGevP EPEIPLAVAVKLDGDN SFOCHKE LSEVIEVILGOLR HNPNVILILSEGGERBVLYVERASAGSV GL- PPLNLYHGTDAPL DDPWPTRKIALGAAKGGLAFGLHNEAPPVYIYDLTKTSNILLDDESENGKVADEFGGLAKLQS
AK065635.q FPDQDSLLIGEGGFQCVYRKVGT ADQdgpebOpQAVAVKLDLG SFOCHKE LSEVIEVILGOLR HNPNVILILSEGGERBVLYVERASAGSV GL- PPLNLYHGTDAPL DDPWPTRKIALGAAKGGLAFGLHNEAPPVYIYDLTKTSNILLDDESENGKVADEFGGLAKLQS
AK106265.q FPDQDSLLIGEGGFQCVYRKVGT ADQdgpebOpQAVAVKLDLG SFOCHKE LSEVIEVILGOLR HNPNVILILSEGGERBVLYVERASAGSV GL- PPLNLYHGTDAPL DDPWPTRKIALGAAKGGLAFGLHNEAPPVYIYDLTKTSNILLDDESENGKVADEFGGLAKLQS
34898434.p FPDPSLLIGEGGFQCVYRKVGT DpavKpGTGLTVAVAKLDRNG ALOCHKE LSEVIEVILGOLR HNPNVILILSEGGERBVLYVERASAGSV GL- PPLNLYHGTDAPL DDPWPTRKIALGAAKGGLAFGLHNEAPPVYIYDLTKTSNILLDDESENGKVADEFGGLAKLQS
83540621.q FPDPSLLIGEGGFQCVYRKVGT DpavKpGTGLTVAVAKLDRNG ALOCHKE LSEVIEVILGOLR HNPNVILILSEGGERBVLYVERASAGSV GL- PPLNLYHGTDAPL DDPWPTRKIALGAAKGGLAFGLHNEAPPVYIYDLTKTSNILLDDESENGKVADEFGGLAKLQS
AK103037.q FPDPSLLIGEGGFQCVYRKVGT DpavKpGTGLTVAVAKLDRNG ALOCHKE LSEVIEVILGOLR HNPNVILILSEGGERBVLYVERASAGSV GL- PPLNLYHGTDAPL DDPWPTRKIALGAAKGGLAFGLHNEAPPVYIYDLTKTSNILLDDESENGKVADEFGGLAKLQS
AK064216.q FPDPSLLIGEGGFQCVYRKVGT DpavKpGTGLTVAVAKLDRNG ALOCHKE LSEVIEVILGOLR HNPNVILILSEGGERBVLYVERASAGSV GL- PPLNLYHGTDAPL DDPWPTRKIALGAAKGGLAFGLHNEAPPVYIYDLTKTSNILLDDESENGKVADEFGGLAKLQS
15242204.p FPDPSLLIGEGGFQCVYRKVGT DpavKpGTGLTVAVAKLDRNG ALOCHKE LSEVIEVILGOLR HNPNVILILSEGGERBVLYVERASAGSV GL- PPLNLYHGTDAPL DDPWPTRKIALGAAKGGLAFGLHNEAPPVYIYDLTKTSNILLDDESENGKVADEFGGLAKLQS
15232085.p FPDPSLLIGEGGFQCVYRKVGT DpavKpGTGLTVAVAKLDRNG ALOCHKE LSEVIEVILGOLR HNPNVILILSEGGERBVLYVERASAGSV GL- PPLNLYHGTDAPL DDPWPTRKIALGAAKGGLAFGLHNEAPPVYIYDLTKTSNILLDDESENGKVADEFGGLAKLQS
15233058.p FPDPSLLIGEGGFQCVYRKVGT DpavKpGTGLTVAVAKLDRNG ALOCHKE LSEVIEVILGOLR HNPNVILILSEGGERBVLYVERASAGSV GL- PPLNLYHGTDAPL DDPWPTRKIALGAAKGGLAFGLHNEAPPVYIYDLTKTSNILLDDESENGKVADEFGGLAKLQS
AK102358.q FKPDSLLIGEGGFQCVYRKVGT DparPGSCMVAVAKLKLKPEG FOCHEKE LSEVIEVILGOLR HNPNVILILSEGGERBVLYVERASAGSV GL- PPLNLYHGTDAPL DDPWPTRKIALGAAKGGLAFGLHNEAPPVYIYDLTKTSNILLDDESENGKVADEFGGLAKLQS
35750066.q FKPDSLLIGEGGFQCVYRKVGT DparPGSCMVAVAKLKLKPEG FOCHEKE LSEVIEVILGOLR HNPNVILILSEGGERBVLYVERASAGSV GL- PPLNLYHGTDAPL DDPWPTRKIALGAAKGGLAFGLHNEAPPVYIYDLTKTSNILLDDESENGKVADEFGGLAKLQS
15223723.p FQDQNLIGEGGFQCVYRKVGT DparPGSCMVAVAKLKLKPEG FOCHEKE LSEVIEVILGOLR HNPNVILILSEGGERBVLYVERASAGSV GL- PPLNLYHGTDAPL DDPWPTRKIALGAAKGGLAFGLHNEAPPVYIYDLTKTSNILLDDESENGKVADEFGGLAKLQS

15227042.p ERPDSSLIGEGGFQWVFKGMIDaskPGCIVAVVAKKLKITEG YOCHKE LNEVNMLGOLS HPNLVVLVYCVCB CENRLLVYEFMPK GSLENLHFLRRGAqP LTAIRMKVAIAAKGLFLDAKS QVIYRDFKAANILLDAE ENSKLSDFGGLAKAGP
15223401.p ERKNSMIEEGCFCVYKGID PGSVKPGCIVAVVAKKLKEEG MVAVVAKKLKIEG FCGHRO LNEVDLGLRLH HMLVVLICYCSE GDHLRLLVYEVMPK GSLENLHFLRRGAep LTAIRMKVAIAAARGLFLHEA QVIYRDFKAISNILLDSE ENAKLSDFGLAKVGP
15222454.p ERKNSMIEEGCFCVYKGID PGSVKPGCIVAVVAKKLKSEG FCGHKE LNEVNMLGOLS HMLVVLICYCSE GSLENLHFLRRGAep LTAIRMKVAIAAARGLFLHEA QVIYRDFKAISNILLDSE ENAKLSDFGLAKVGP
30694253.p ERPSDVVCEGGFCVFKGMIDptkPGTIVAVVAKLNLQDG FCGHRE LNEVNMLGOLS HMLVVLICYCSE DEORLLVYEFMPK GSLENLHFANGNkdfp LTAIRMKVAIAAARGLFLHEA QVIYRDFKAISNILLDSE ENAKLSDFGLAKRGP
15225520.p ERPSDVVCEGGFCVFKGMIDptkPGTIVAVVAKLNLQDG FCGHRE LNEVNMLGOLS HMLVVLICYCSE DEORLLVYEFMPK GSLENLHFLRRGAyfkp LTAIRMKVAIAAARGLFLHEA QVIYRDFKAISNILLDAD ENAKLSDFGLAKRGP
15241749.p ERPSDVVCEGGFCVFKGMIDptkPGTIVAVVAKLNLQDG FCGHRE LNEVNMLGOLS HMLVVLICYCSE DEORLLVYEFMPK GSLENLHFLRRGAyfkp LTAIRMKVAIAAARGLFLHEA QVIYRDFKAISNILLDAD ENAKLSDFGLAKRGP
30679590.p ERPSDVVCEGGFCVFKGMIDptkPGTIVAVVAKLNLQEG FCGHRE LNEVNMLGOLS HMLVVLICYCSE DEORLLVYEFMPK GSLENLHFLRRGAyfkp LTAIRMKVAIAAARGLFLHEA QVIYRDFKAISNILLDAD ENAKLSDFGLAKRGP
AK070847.q ERPSDVVCEGGFCVYKGIDackPGTIVAVVAKRNQBS LOGCHRE LNEVNMLGOFCA DEORLLVYEFMPK GSLENLHFLRRGshfp LTAIRMKVAIAAARGLFLHEA QVIYRDFKAISNILLDAD ENAKLSDFGLAKRGP
15222437.p ERPSDVVCEGGFCVYKGIDasRPGTIVAVVAKLNLQDG WOCHQE LNEVNMLGOFCA HRHLVVLICYCSE DEORLLVYEFMPK GSLENLHFLRRGlyfp LTAIRMKVAIAAARGLFLHEA QVIYRDFKAISNILLDAD ENAKLSDFGLAKRGP
15227001.p ERPSDVVCEGGFCVYKGIDaskPGTIVAVVAKLNLQDG WOCHQE LNEVNMLGOFCA HRHLVVLICYCSE DEORLLVYEFMPK GSLENLHFLRRGyfp LTAIRMKVAIAAARGLFLHEA QVIYRDFKAISNILLDAD ENAKLSDFGLAKRGP
15232406.p DNIVSESCBAPNVVYKGID DGRILIAVAKFNRLA WADHROFDEAKVGSLR SDRLNLLCQCB EBRLLVAEFMPK EBRLLVAEFCNPK GRALYDINAYVRLDDK GNAKLSDFGGLAKRGP
15237465.p FSISSCIVSEGGekapNVVYKGID KLGEGNLVAIKLSEROS WPDQQFWVATCQVGNKL NKIVLILISCCB DTRLKVLAETYMPN LWDMDRVLVADYIADYCNIS NKRIVYDINAYVRLDEE ECDPLSSEGLIMKNS
AK107462.q DLIVSESCBAPNVVYKGID GGRILIAVAKFESRLS NRRILIAVAKFTKMA WPEKPGFADAEAVVCKLR HMLVVLICYCSE DTRLKVLAETYMPN LWDMDRVLVADYIADYCNIS NKRIVYDINAYVRLDEE ECDPLSSEGLIMKNS
18418600.p DNIVSESCBAPNVVYKGID GGRILIAVAKFESRLS NRRILIAVAKFTKMA WPEKPGFADAEAVVCKLR HMLVVLICYCSE DTRLKVLAETYMPN LWDMDRVLVADYIADYCNIS NKRIVYDINAYVRLDEE ECDPLSSEGLIMKNS
AK104997.q DNIVSESCBAPNVVYKGID GGRILIAVAKFESRLS RTRRAIAVAKFEPKMA WPEKPGFADAEAVVCKLR HMLVVLICYCSE DTRLKVLAETYMPN LWDMDRVLVADYIADYCNIS NKRIVYDINAYVRLDEE ECDPLSSEGLIMKNS
310017.q ANIVSESCBAPNVVYKGID GAGGGGRRAIAVAKFEGKLA WPEKPGFADAEAVVCKLR HMLVVLICYCSE DTRLKVLAETYMPN LWDMDRVLVADYIADYCNIS NKRIVYDINAYVRLDEE ECDPLSSEGLIMKNS
15227366.p FSISSCIVDPTSDWVYKGID GAGGGGRRAIAVAKFEGKLA WPEKPGFADAEAVVCKLR HMLVVLICYCSE DTRLKVLAETYMPN LWDMDRVLVADYIADYCNIS NKRIVYDINAYVRLDEE ECDPLSSEGLIMKNS
15227384.p FSSDEIISeNaeesSVVYKG CLLENLGFVAVAKRFKNP FWDDDPYTEDAKTAGELK HMLVVLICYCSE DTRLKVLAETYMPN LWDMDRVLVADYIADYCNIS NKRIVYDINAYVRLDEE ECDPLSSEGLIMKNS
15223700.p FNNIVAVVSCSdgnPVLVYKGIDSKDRILIAVAKKESKL TWPDRDFOEAKVGSLR HMLVVLICYCSE DTRLKVLAETYMPN LWDMDRVLVADYIADYCNIS NKRIVYDINAYVRLDEE ECDPLSSEGLIMKNS
15240884.p GNIVSEndSPVNPVYVYKGID DGRILIAVAKFQRSLS WPDPFFEPNAVAVGVLK HMLVVLICYCSE DTRLKVLAETYMPN LWDMDRVLVADYIADYCNIS NKRIVYDINAYVRLDEE ECDPLSSEGLIMKNS
15232611.p DNIVSENEBVRPNVYVYKGID DGRILIAVAKFQRSLS WPDSLPIPIASAOVCRCR HMLVVLICYCSE DTRLKVLAETYMPN LWDMDRVLVADYIADYCNIS NKRIVYDINAYVRLDEE ECDPLSSEGLIMKNS
22327962.p DSIVSESCBAPNVVYKGID DDRVIAVAKFENRSA WPDTRDFOLEAKVGQLR HMLVVLICYCSE DTRLKVLAETYMPN LWDMDRVLVADYIADYCNIS NKRIVYDINAYVRLDEE ECDPLSSEGLIMKNS
AK072216.p ERIVSESCBAPNVVYKGID STGRVIAVAKFEGRAA WPSDROFLEAMAVGOLR HMLVVLICYCSE DTRLKVLAETYMPN LWDMDRVLVADYIADYCNIS NKRIVYDINAYVRLDEE ECDPLSSEGLIMKNS
15222446.p VKKLQMLCIIKCNWII KDLVLTKEHIGKL GLILVSEFRKKA VGCLR NVRMLNLLCQCB EBRLLVAEFMPN EBRLLVAEFCNPK GRALYDINAYVRLDEE ECDPLSSEGLIMKNS
15237604.p ENIVSESCBAPNVVYKGID NQRILIAVAKFNRKS WPSDROFLEAKVGOLR HMLVVLICYCSE DTRLKVLAETYMPN LWDMDRVLVADYIADYCNIS NKRIVYDINAYVRLDEE ECDPLSSEGLIMKNS
AK101506.q ENIVSESCBAPNVVYKGID AQRILIAVAKFNRSA WPSDROFLEAKVGOLR HMLVVLICYCSE DTRLKVLAETYMPN LWDMDRVLVADYIADYCNIS NKRIVYDINAYVRLDEE ECDPLSSEGLIMKNS
15223469.p ENIVSESCBAPNVVYKGID NHMKIAKIPESGTIA WPSDROFLEAKVGOLR HMLVVLICYCSE DTRLKVLAETYMPN LWDMDRVLVADYIADYCNIS NKRIVYDINAYVRLDEE ECDPLSSEGLIMKNS
22328189.p EYIVSESCBAPNVVYKGID NQKKILIAVAKFTKMA WPSDROFLEAKVGOLR HMLVVLICYCSE DTRLKVLAETYMPN LWDMDRVLVADYIADYCNIS NKRIVYDINAYVRLDEE ECDPLSSEGLIMKNS
AK073169.q ERIVSESCBAPNVVYKGID FGRPSVIGEGGFQWVFKGMIDptkPGTIVAVVAKLNLQDG HOCHEE LNEVNMLGOLS HMLVVLVYCVCB DEORLLVYEFMPK GSLENLHFLRRStfhp LWDMDRVLVADYIADYCNIS NKRIVYDINAYVRLDEE ECDPLSSEGLIMKNS
AK069546.q ERPSDVIGEGGFQWVFKGMIDpsrPCTGVIAVAKLNLQDG FCGHRE LNEVNMLGOLS HMLVVLVYCVCB DEORLLVYEFMPK GSLENLHFLRRGshfp LWDMDRVLVADYIADYCNIS NKRIVYDINAYVRLDEE ECDPLSSEGLIMKNS
AK102905.q ERPSDVIGEGGFQWVFKGMIDpvkPGTIVAVVAKLNLKDS FCGHRE LNEVNMLGOLS HMLVVLVYCVCB DEORLLVYEFMPK GSLENLHFLRRGshfp LWDMDRVLVADYIADYCNIS NKRIVYDINAYVRLDEE ECDPLSSEGLIMKNS
18398350.p ERPSDVIGEGGFQWVFKGMIDpvkPGTIVAVVAKLNLKDS FCGHRE LNEVNMLGOLS HMLVVLVYCVCB DEORLLVYEFMPK GSLENLHFLRRGshfp LWDMDRVLVADYIADYCNIS NKRIVYDINAYVRLDEE ECDPLSSEGLIMKNS
22327062.p EGNOMELeSGLGYINKTLSR ACKGVMAVAKVILYLAN EOAFOID LWDMDRVLVADYIADYCNIS NKRIVYDINAYVRLDEE ECDPLSSEGLIMKNS
152339047.p KMYVKEKDNEFRTYEGCGFQWVFKGMIDptkPGTIVAVVAKLNLQDG SQTQD KEPVAKLNLQDG HMLVVLVYCVCB DEORLLVYEFMPK GSLENLHFLRRStfhp LWDMDRVLVADYIADYCNIS NKRIVYDINAYVRLDEE ECDPLSSEGLIMKNS
15239043.p FQDPRVVECEDYSEFRTYEGCGFQWVFKGMIDptkPGTIVAVVAKLNLQDG SLDQD KEPVAKLNLQDG HMLVVLVYCVCB DEORLLVYEFMPK GSLENLHFLRRStfhp LWDMDRVLVADYIADYCNIS NKRIVYDINAYVRLDEE ECDPLSSEGLIMKNS
30691959.p ERPSDVIGEGGFQWVFKGMIDpsrPCTGVIAVAKLNLQDG EQLIBE QCEVAVGIPGFGH HMLVVLVYCVCB DEORLLVYEFMPK GSLENLHFLRRGshfp LWDMDRVLVADYIADYCNIS NKRIVYDINAYVRLDEE ECDPLSSEGLIMKNS
45360017.q EKPEWVIGEGGFQWVFKGMIDpsrPCTGVIAVAKLNLQDG EQLIBE QCEVAVGIPGFGH HMLVVLVYCVCB DEORLLVYEFMPK GSLENLHFLRRGshfp LWDMDRVLVADYIADYCNIS NKRIVYDINAYVRLDEE ECDPLSSEGLIMKNS
30690422.p EKPSDSMIIQOGPFQWVFKGMIDpsrPCTGVIAVAKLNLQDG VQFAB RSEBVNLGMLS HMLVVLVYCVCB DEORLLVYEFMPK GSLENLHFLRRGshfp LWDMDRVLVADYIADYCNIS NKRIVYDINAYVRLDEE ECDPLSSEGLIMKNS
AK069558.p ERTDTIVLKVYKGID KTLVYKGIDKSTSE VVAKLNLQDG VQFAB RSEBVNLGMLS HMLVVLVYCVCB DEORLLVYEFMPK GSLENLHFLRRGshfp LWDMDRVLVADYIADYCNIS NKRIVYDINAYVRLDEE ECDPLSSEGLIMKNS
83524418.q EKPSDVIGEGGFQWVFKGMIDpsrPCTGVIAVAKLNLQDG VQFAB RSEBVNLGMLS HMLVVLVYCVCB DEORLLVYEFMPK GSLENLHFLRRGshfp LWDMDRVLVADYIADYCNIS NKRIVYDINAYVRLDEE ECDPLSSEGLIMKNS
83510160.q ERPSDVIGEGGFQWVFKGMIDpvkPGTIVAVVAKLNLQSES MOCYHE QSEVNLNLLGCLS HMLVVLVYCVCB DEORLLVYEFMPK GSLENLHFLRKGGCp LWDMDRVLVADYIADYCNIS NKRIVYDINAYVRLDEE ECDPLSSEGLIMKNS
42610023.p ERKADIVVCEGCFRTYVHKGID DpsrSGSMAVAKLNLQDES LQVH EQSEVNLNLLGCLS HMLVVLVYCVCB DEORLLVYEFMPK GSLENLHFLRKGGCp LWDMDRVLVADYIADYCNIS NKRIVYDINAYVRLDEE ECDPLSSEGLIMKNS
AK102665.q EGRARHVVQGQSFQWVFKGMID DGRKVLVHMDPQG KQEEEEE EMEVVELLSERLR SPYMLLALLGHCQSG HMLVVLVYCVCB DEORLLVYEFMPK GSLENLHFLRKGGCp LWDMDRVLVADYIADYCNIS NKRIVYDINAYVRLDEE ECDPLSSEGLIMKNS
30694859.p FSECNVVYKGAYWVFKGMID DGTTEAIKRLKMDMG RREBEPRETEVDDILLSRMH CPMVLLCQCB EBRLLVAEFMPN SMLKSHLRRALAPAEQPP HMLVVLVYCVCB DEORLLVYEFMPK GSLENLHFLRKGGCp LWDMDRVLVADYIADYCNIS NKRIVYDINAYVRLDEE ECDPLSSEGLIMKNS
AK106842.q FSECBKIKONGDVKYGVLSID GVAIAKLLHMPN dnasnQKHERRFRMVEVDSLQSLR CPMVLLCQCB EBRLLVAEFMPN SMLKSHLRRALAPAEQPP HMLVVLVYCVCB DEORLLVYEFMPK GSLENLHFLRKGGCp LWDMDRVLVADYIADYCNIS NKRIVYDINAYVRLDEE ECDPLSSEGLIMKNS
15221910.p FSDSNVILQGCRGCRYRACID EKSSSVVVKLNGGGID ETDIJKOBEIIEVDLJAKIR HMLVVLVYCVCB RQTSICIVYEMON GSLESLSLHOPQSosg HMLVVLVYCVCB DEORLLVYEFMPK GSLENLHFLRKGGCp LWDMDRVLVADYIADYCNIS NKRIVYDINAYVRLDEE ECDPLSSEGLIMKNS
AK107192.q FSEBNMIIQVCGFQWVYKAAD AGVTAIAVAKLNLQDG PDCKEFENELLDLQ HMLVVLVYCVCB DEORLLVYEFMPK GSLENLHFLRKGGCp LWDMDRVLVADYIADYCNIS NKRIVYDINAYVRLDEE ECDPLSSEGLIMKNS
24950003.q PSBNMIIQVCGFQWVYKAAD GSVLVAIAVAKFEGHKG QDCEKEFENELLDLQ HMLVVLVYCVCB DEORLLVYEFMPK GSLENLHFLRKGGCp LWDMDRVLVADYIADYCNIS NKRIVYDINAYVRLDEE ECDPLSSEGLIMKNS
15224692.p EKPSBVIGEGGFQWVYKGID NNVKAKVIIKEDCQD QEAKERQV EKAE HMLVVLVYCVCB DEORLLVYEFMPK GSLENLHFLRKGGCp LWDMDRVLVADYIADYCNIS NKRIVYDINAYVRLDEE ECDPLSSEGLIMKNS
30683447.p EKPSBVIGEGGFQWVYKGID NNISVAKVIIKEDCQD RQVVAIAVAKLNLQCC RQEVEREKFSEVNLQ HMLVVLVYCVCB DEORLLVYEFMPK GSLENLHFLRKGGCp LWDMDRVLVADYIADYCNIS NKRIVYDINAYVRLDEE ECDPLSSEGLIMKNS
AK064847.q FSPBNMIIQVCGFQWVYKGID RQVVAIAVAKLNLQCC RQEVEREKFSEVNLQ HMLVVLVYCVCB DEORLLVYEFMPK GSLENLHFLRKGGCp LWDMDRVLVADYIADYCNIS NKRIVYDINAYVRLDEE ECDPLSSEGLIMKNS
15227478.p EGNALKALICEGCSYFRTYVNGCKF GRAVAAVAKLNLQASS SEE DSDTSPLS0LVSVSLRK HMLVVLVYCVCB DEORLLVYEFMPK GSLENLHFLRKGGCp LWDMDRVLVADYIADYCNIS NKRIVYDINAYVRLDEE ECDPLSSEGLIMKNS
AK072522.p FSDRALICEGCSYFRTYVNGCKF DGRAVAKLNLQDPA GSQEDNSESAQTMVSLRK HMLVVLVYCVCB DEORLLVYEFMPK GSLENLHFLRKGGCp LWDMDRVLVADYIADYCNIS NKRIVYDINAYVRLDEE ECDPLSSEGLIMKNS
83601093.q EGSALICEGCSYFRTYVNGCKF DGRAVAKLNLQDPA SSGEADSEASQLSMVSRLK HMLVVLVYCVCB DEORLLVYEFMPK GSLENLHFLRKGGCp LWDMDRVLVADYIADYCNIS NKRIVYDINAYVRLDEE ECDPLSSEGLIMKNS
3060005.q EGSALICEGCSYFRTYVNGCKF DGRAVAKLNLQDPA NQKGVAKLNLQDAST EPEVDNPLQFQWVSLR LHDVPEL HMLVVLVYCVCB DEORLLVYEFMPK GSLENLHFLRKGGCp LWDMDRVLVADYIADYCNIS NKRIVYDINAYVRLDEE ECDPLSSEGLIMKNS
28230018.p EGSALICEGCSYFRTYVNGCKF DGRAVAKLNLQDPA NQKGVAKLNLQDAST EPEVDNPLQFQWVSLR LHDVPEL HMLVVLVYCVCB DEORLLVYEFMPK GSLENLHFLRKGGCp LWDMDRVLVADYIADYCNIS NKRIVYDINAYVRLDEE ECDPLSSEGLIMKNS
AK067164.q EGSALICEGCSYFRTYVNGCKF DGRAVAKLNLQDPA NEDEPLKQVSGASRLK HMLVVLVYCVCB DEORLLVYEFMPK GSLENLHFLRKGGCp LWDMDRVLVADYIADYCNIS NKRIVYDINAYVRLDEE ECDPLSSEGLIMKNS
18406188.p EGSALICEGCSYFRTYVNGCKF DGRAVAKLNLQDPA NQKGVAKLNLQDPA EPEVNEFPLVQGSVSLRK HMLVVLVYCVCB DEORLLVYEFMPK GSLENLHFLRKGGCp LWDMDRVLVADYIADYCNIS NKRIVYDINAYVRLDEE ECDPLSSEGLIMKNS
30694970.p EGSALICEGCSYFRTYVNGCKF DGRAVAKLNLQDPA NQKGVAKLNLQDPA EPEVNEFPLVQGSVSLRK HMLVVLVYCVCB DEORLLVYEFMPK GSLENLHFLRKGGCp LWDMDRVLVADYIADYCNIS NKRIVYDINAYVRLDEE ECDPLSSEGLIMKNS
30694972.p EGSKSLICEGCSYFRTYVNGCKF DGRAVAKLNLQDPA EPEVNEFPLVQGSVSLRK HMLVVLVYCVCB DEORLLVYEFMPK GSLENLHFLRKGGCp LWDMDRVLVADYIADYCNIS NKRIVYDINAYVRLDEE ECDPLSSEGLIMKNS
15222170.p EGSKSLICEGCSYFRTYVNGCKF DGRAVAKLNLQDPA EPEVNEFPLVQGSVSLRK HMLVVLVYCVCB DEORLLVYEFMPK GSLENLHFLRKGGCp LWDMDRVLVADYIADYCNIS NKRIVYDINAYVRLDEE ECDPLSSEGLIMKNS
15224557.p EGSKSLICEGCSYFRTYVNGCKF DGRAVAKLNLQDPA EAEINTEFLNQVSVMSRLK HMLVVLVYCVCB DEORLLVYEFMPK GSLENLHFLRKGGCp LWDMDRVLVADYIADYCNIS NKRIVYDINAYVRLDEE ECDPLSSEGLIMKNS
AK064374.q PSNNSLICEGCSYFRTYVNGCKF DGRAVAKLNLQDPA EAEINTEFLNQVSVMSRLK HMLVVLVYCVCB DEORLLVYEFMPK GSLENLHFLRKGGCp LWDMDRVLVADYIADYCNIS NKRIVYDINAYVRLDEE ECDPLSSEGLIMKNS
AK065231.q FSSDALICEGCSYFRTYVNGCKF DGRAVAKLNLQDPA KOPDQEFLVQSVAVSLRK HMLVVLVYCVCB DEORLLVYEFMPK GSLENLHFLRKGGCp LWDMDRVLVADYIADYCNIS NKRIVYDINAYVRLDEE ECDPLSSEGLIMKNS
152226492.p FGSNSLICEGCSYFRTYVNGCKF DGRAVAKLNLQDPA KOPDQEFLVQSVAVSLRK HMLVVLVYCVCB DEORLLVYEFMPK GSLENLHFLRKGGCp LWDMDRVLVADYIADYCNIS NKRIVYDINAYVRLDEE ECDPLSSEGLIMKNS
30690586.p FGSNSLICEGCSYFRTYVNGCKF DGRAVAKLNLQDPA KOPDQEFLVQSVAVSLRK HMLVVLVYCVCB DEORLLVYEFMPK GSLENLHFLRKGGCp LWDMDRVLVADYIADYCNIS NKRIVYDINAYVRLDEE ECDPLSSEGLIMKNS
15228711.p FGSNSLICEGCSYFRTYVNGCKF DGRAVAKLNLQDPA KOPDQEFLVQSVAVSLRK HMLVVLVYCVCB DEORLLVYEFMPK GSLENLHFLRKGGCp LWDMDRVLVADYIADYCNIS NKRIVYDINAYVRLDEE ECDPLSSEGLIMKNS
15221113.p FSSPLVLGKSYFRTYVNGCKF SGKEAAVAKLNLQDPA KOPDQEFLS0TSVMSRLK HMLVVLVYCVCB DEORLLVYEFMPK GSLENLHFLRKGGCp LWDMDRVLVADYIADYCNIS NKRIVYDINAYVRLDEE ECDPLSSEGLIMKNS
15221111.p VGSKSLICEGCSYFRTYVNGCKF SGCAAATVAKLNLQDSS KOPDQEFLS0TSVMSRLK HMLVVLVYCVCB DEORLLVYEFMPK GSLENLHFLRKGGCp LWDMDRVLVADYIADYCNIS NKRIVYDINAYVRLDEE ECDPLSSEGLIMKNS
22331138.p VGSKSLICEGCSYFRTYVNGCKF SKAKLNLQDSS KOPDQEFLS0TSVMSRLK HMLVVLVYCVCB DEORLLVYEFMPK GSLENLHFLRKGGCp LWDMDRVLVADYIADYCNIS NKRIVYDINAYVRLDEE ECDPLSSEGLIMKNS
15234728.p FSIENIIGEGCSYFRTYVNGCKF NGKIMAKLNLQDNA KOPDQEFLS0TSVMSRLK HMLVVLVYCVCB DEORLLVYEFMPK GSLENLHFLRKGGCp LWDMDRVLVADYIADYCNIS NKRIVYDINAYVRLDEE ECDPLSSEGLIMKNS
63720018.q FCDPSLICEGCSYFRTYVNGCKF NGKVLAVAKLNLQDSS KOPDQEFLS0TSVMSRLK HMLVVLVYCVCB DEORLLVYEFMPK GSLENLHFLRKGGCp LWDMDRVLVADYIADYCNIS NKRIVYDINAYVRLDEE ECDPLSSEGLIMKNS
49770005.q FCDPSLICEGCSYFRTYVNGCKF NGKVLAVAKLNLQDSS KOPDQEFLS0TSVMSRLK HMLVVLVYCVCB DEORLLVYEFMPK GSLENLHFLRKGGCp LWDMDRVLVADYIADYCNIS NKRIVYDINAYVRLDEE ECDPLSSEGLIMKNS
15236294.p FACEPLICEGCSYFRTYVNGCKF NGKLFIAVAKLNLQDPA KOPDQEFLS0TSVMSRLK HMLVVLVYCVCB DEORLLVYEFMPK GSLENLHFLRKGGCp LWDMDRVLVADYIADYCNIS NKRIVYDINAYVRLDEE ECDPLSSEGLIMKNS
18399502.p FSHNPLICEGCSYFRTYVNGCKF GGKLFIAVAKLNLQDPA KOPDQEFLS0TSVMSRLK HMLVVLVYCVCB DEORLLVYEFMPK GSLENLHFLRKGGCp LWDMDRVLVADYIADYCNIS NKRIVYDINAYVRLDEE ECDPLSSEGLIMKNS
30682076.p FSHNPLICEGCSYFRTYVNGCKF HCKPLVAKLNLQDPA KOPDQEFLS0TSVMSRLK HMLVVLVYCVCB DEORLLVYEFMPK GSLENLHFLRKGGCp LWDMDRVLVADYIADYCNIS NKRIVYDINAYVRLDEE ECDPLSSEGLIMKNS
73820009.q FSEENLRLQFTRKSYFRTYVNGCKF DIKEFVAKLNLQDEAM ARMPVDFPLRNRV0RISBLQ HMLVVLVYCVCB DEORLLVYEFMPK GSLENLHFLRKGGCp LWDMDRVLVADYIADYCNIS NKRIVYDINAYVRLDEE ECDPLSSEGLIMKNS
83553602.p FSEENLRLQFTRKSYFRTYVNGCKF GKLLEWKLKIDAAANS KOPDQEFLS0TSVMSRLK HMLVVLVYCVCB DEORLLVYEFMPK GSLENLHFLRKGGCp LWDMDRVLVADYIADYCNIS NKRIVYDINAYVRLDEE ECDPLSSEGLIMKNS
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83554045.p FCADNLICEGCSYFRTYVNGCKF DHKVLAIAVAKLNLQNSA fFGHPSDFPLFELVAVVSLR HMLVVLVYCVCB DEORLLVYEFMPK GSLENLHFLRKGGCp LWDMDRVLVADYIADYCNIS NKRIVYDINAYVRLDEE ECDPLSSEGLIMKNS
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 AK105108.q QNYSCLLSGGGTCKVYKGIDIE DNTIPVAVKTSIEIVN LEGFEEPAFINGWGLSIV HNNIIKLCCLE vDVLMLVYEFIAAK GNLQDLHCDANL pPLGLCIRLDIAIESAEGCLRYMHSSSRPDRHCDVCKANILLDK EIRKISDFGSKLLT
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 71850001.q DNYSVTKVQKCGFCCKVYKGIDIE DNRVAVAKRIF EDSMEDLAKEVIAHSQVN HNNIIKLCCLE vDVLMLVYEFIAAK GNLQDLHCDANL pPLGLCIRLDIAIESAEGCLRYMHSSSRPDRHCDVCKANILLDK EIRKISDFGSKLLT
 40510010.q NNYSPTTLCGGFCKVYKGIDIE DNRVAVAKRIFIRD KLDPEAFEVIVHQSMI HNNIIKLCCLE vDVLMLVYEFIAAK GNLQDLHCDANL pPLGLCIRLDIAIESAEGCLRYMHSSSRPDRHCDVCKANILLDK EIRKISDFGSKLLT
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 71850014.q CNYTIPKQKGFCKVYKGIDIE DYDRDVAVKRYIRGD LREEMEBSVRAHOMS HNNIIKLCCLE vDVLMLVYEFIAAK GNLQDLHCDANL pPLGLCIRLDIAIESAEGCLRYMHSSSRPDRHCDVCKANILLDK EIRKISDFGSKLLT
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 40600007.q IQSCNVIKQKGFCKVYKGIDIE DKLVAIKRHKINV KLOKEPFTNQHQSXVI HNNIIKLCCLE vDVLMLVYEFIAAK GNLQDLHCDANL pPLGLCIRLDIAIESAEGCLRYMHSSSRPDRHCDVCKANILLDK EIRKISDFGSKLLT
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 58990022.q SNYSPTDQKACVYKGIDIE EERKSEETEVHQSEM KHNIIKLCCLE vDVLMLVYEFIAAK GNLQDLHCDANL pPLGLCIRLDIAIESAEGCLRYMHSSSRPDRHCDVCKANILLDK EIRKISDFGSKLLT
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 21686954.q NKKRTKIKGQFCCKVYKGIDIE DDOBVAVKYSTAKSsr ngdGTLKQKASVNEHQSMQ HNNIIKLCCLE vDVLMLVYEFIAAK GNLQDLHCDANL pPLGLCIRLDIAIESAEGCLRYMHSSSRPDRHCDVCKANILLDK EIRKISDFGSKLLT
 83562636.q FAEARVLRGCHCVVYKGIDIE DGSTAVAKRSRVVE EKOLKEPFTNQHQSXVI HNNIIKLCCLE vDVLMLVYEFIAAK GNLQDLHCDANL pPLGLCIRLDIAIESAEGCLRYMHSSSRPDRHCDVCKANILLDK EIRKISDFGSKLLT
 24770020.q FAADVRVLRGCHCVVYKGIDIE DNMVAVKSKSKMIE AAQKDOPANBIIHQSQSVI HNNIIKLCCLE vDVLMLVYEFIAAK GNLQDLHCDANL pPLGLCIRLDIAIESAEGCLRYMHSSSRPDRHCDVCKANILLDK EIRKISDFGSKLLT
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 83522182.q FDPTRILRGCHGCVVYKGIDIE DQRWVAIKRCKNIR EEEISQFNEVAILSQIN HNNIIKLCCLE vDVLMLVYEFIAAK GNLQDLHCDANL pPLGLCIRLDIAIESAEGCLRYMHSSSRPDRHCDVCKANILLDK EIRKISDFGSKLLT
 83522181.q FDPTRILQGCHCVVYKGIDIE DQRWVAIKRCKNDIK EEEISQFNEVAILSQIN HNNIIKLCCLE vDVLMLVYEFIAAK GNLQDLHCDANL pPLGLCIRLDIAIESAEGCLRYMHSSSRPDRHCDVCKANILLDK EIRKISDFGSKLLT
 52150020.q FDSSTRILRGCHCVVYKGIDIE DQRWVAIKRCKNIR EEEISQFNEVAILSQIN HNNIIKLCCLE vDVLMLVYEFIAAK GNLQDLHCDANL pPLGLCIRLDIAIESAEGCLRYMHSSSRPDRHCDVCKANILLDK EIRKISDFGSKLLT
 AK099018.q FDPTRILRGCHCVVYKGIDIE DQRWVAIKRCKVIR eCEIDDEFINEVAILSQIN HNNIIKLCCLE vDVLMLVYEFIAAK GNLQDLHCDANL pPLGLCIRLDIAIESAEGCLRYMHSSSRPDRHCDVCKANILLDK EIRKISDFGSKLLT

83530350.q E DATRVLGCGHCVVYKGHD S NQCVIAIKMSKIAE Q TEIDOFINEVAILSOII HRNVVKLFCCLC - aEV LLYVEFISN GTLYDHLHSDVSk - cll SWDDRIARIAVEAA GALAYLHSAAPIPHYHRDVKSNNILLDDN E TAKVSDFGCSRIMS
48850026.q E DATRVLGCGHCVVYKGHD S DQSVAIKKSKIVE Q TEIDOFINEVAILSOII HRNVVKLFCCLC - SEV LLVVEFIPN GTLYDHLHSDVSk - ssLSWDDRIARIASEA GALAYLHSAAPIPHYHRDVKSNNILLDDN E TAKVSDFGCSRIVS
48850023.q Y GEREILITQCHGCVVYKGHD S DQSVAIKKSKIVE Q TEIDOFINEVAILSOII HRNVVKLFCCLC - SEV LLVVEFIPN GTLYDHLHSDVSk - ssLSWDDRIARIASEA GALAYLHSAAPIPHYHRDVKSNNILLDDN E TAKVSDFGCSRIVS
48850022.q E DGTIVLGRGHCVVYKGHD S DQRVAIKKSIVE Q TEIDOFINEVAILSOII HRNVVKLFCCLC - SEV LLVVEFIPN GTLYDHLHSDVSk - ssLSWDDRIARIASEA GALAYLHSAAPIPHYHRDVKSNNILLDDN E TAKVSDFGCSRIVS
48850017.q E DATRVLGCGHCVVYKGHD S DQRVAIKMSKIVD Q AEIDOFVNVEAILSOII HRNVVKLFCCLC - TEV LLVVEFIPN GTLYDHLHSDVSk - cll SWDDRIARIAEATAGALAYLHSAAPIPHYHRDVKSNNILLDDN E TAKVSDFGCSRIP
15226452.p QDOSKIQTKCTHVGTECNLTN GTRVLVVKLFCCLC - IIEPMISSLQIDLHLSCak HRNLARLICLFCMDIG-YIN LLVVEFIPN GTLYDHLHSDVSk - cl SWDDRIARIAEATAGALAYLHSAAPIPHYHRDVKSNNILLDDN E QAKVTFEGIRKQ
AK102659.q E KAAAVNQVDGGCVVYKGHD S DQRVAIKRSKIVE Q GEIDOFVNVEAILSOII HRNVVKLFCCLC - SEV LLVVEFIPN GTLYDHLHSDVSk - ssLSWDDRIARIASEA GALAYLHSAAPIPHYHRDVKSNNILLDDN E TAKVSDFGCSRIVS
27680022.q E NSTRILRGCHCVVYKGHD S DQRVAIKRSKIVE Q GEIDOFVNVEAILSOII HRNVVKLFCCLC - SEV LLVVEFIPN GTLYDHLHSDVSk - cll SWDDRIARIASEA GALAYLHSAAPIPHYHRDVKSNNILLDDN E TAKVSDFGCSRIVS
AK102639.q E HSTRILCCGHCVVYKGHD S DQRVAIKKSIVE Q NEIDOFVNVEAILSOII HRNVVKLFCCLC - SEV LLVVEFIPN GTLYDHLHSDVSk - fsl SWDDRIARIAEATAGALAYLHSAAPIPHYHRDVKSNNILLDDN E TAKVSDFGCSRIVS
27680013.q E DSTRILSGCHCVVYKGHD S DQRVAIKKSIVE Q SEIDOFVNVEAILSOII HRNVVKLFCCLC - SEV LLVVEFIPN GTLYDHLHSDVSk - cvl SWDDRIARIAEATAGALAYLHSAAPIPHYHRDVKSNNILLDDN E TAKVSDFGCSRIVS
41270019.q E DPTIRLGYCHCVVYKGHD S DQRVAIKRSKIVE Q QEDIDOFVNVEAILSOII HRNVVKLFCCLC - SEV LLVVEFIPN GTLYDHLHSDVSk - cl SWDDRIARIAEATAGALAYLHSAAPIPHYHRDVKSNNILLDDN E TAKVSDFGCSRIVS
83524721.q YSDGRILRANCVVYKGHD P NRTTIAVVKKSLIEDP E SHVEOFVNIEITLSDIDP HRNVVKLFCCLC - tEV LLVVEFIPN GTLYDHLHSDVSk - cl SWDDRIARIAEATAGALAYLHSAAPIPHYHRDVKSNNILLDDN E EVAKIADDFCSRIVP
53720019.q YSEBPRILRGCSVVYKGHD P NNITTAVVKKSLIEDP E SQMEOFANITLSDIDP HRNVVKLFCCLC - tEV LLVVEFIPN GTLYDHLHSDVSk - tEV EDCLIRIAEATAGALAYLHSAAPIPHYHRDVKSNNILLDDN E LMAKISDFGCSRIVP
53720022.q FSDDRIVRGGCVVYKGHD P DQTIVVAKKSKLVD Q SQMEOFINELVLSQLVH KHNVKVLLFCCLC - tEV LLVVEFIPN GTLYDHLHSDVSk - pIS EDRIRIAEATAGALAYLHSAAPIPHYHRDVKSNNILLDDN E YTAKVSDFCSRIVP
53720023.q FSDDNIIGRCGCVVYKGHD S NMQMVAKKAQRVD Q QNOMEFINELVLSQLVH KHNVKVLLFCCLC - tEV LLVVEFIPN GTLYDHLHSDVSk - tEV EDRIRIAEATAGALAYLHSAAPIPHYHRDVKSNNILLDDN E TAKVSDFGCSRIVP
15230394.q PSBSPNLVRFNMYRGLON R RPVITKARATWNY YKSDTIDLECRDIPVSSVMSG KHNELKLFCCLF - DME IDCPRLVCEYER-I P FPNTPNPEML LEVLRIRKIAEATAGALAYLHSAAPIPHYHRDVKSNNILLDDN E CTAKLSDFCIAIP
15230398.p SNRASRDNVYRCVYKGHD P DDPRVVKKSKYTL DME IDCPRLVCEYER-I P FPNTPNPEML LEVLRIRKIAEATAGALAYLHSAAPIPHYHRDVKSNNILLDDN E CTAKLSDFCIAIP
15230364.q FSESNRNSLPFDPYWWYRKFML S FDPYWWYRKFML DME IDCPRLVCEYER-I P FPNTPNPEML LEVLRIRKIAEATAGALAYLHSAAPIPHYHRDVKSNNILLDDN E CTAKLSDFCIAIP
18408777.p PGVNLVSELSHDIDYWWYSG KNEHDMVLFRAFSOS VVYKDXIDFRLIAVSKLVD P EEPVMVYHGVKML DME IDCPRLVCEYER-I P FPNTPNPEML LEVLRIRKIAEATAGALAYLHSAAPIPHYHRDVKSNNILLDDN E CVAKLONFSYCVP
15217888.p PSDNENVRLEVFSKPKVSKGN S ENHPMILKDKVG wWSGLRVLRCRPAVASSVVS KHNEMKLFCCLC - IDY PMVYHVKKML DME IDCPRLVCEYER-I P FPNTPNPEML LEVLRIRKIAEATAGALAYLHSAAPIPHYHRDVKSNNILLDDN E CVAKLONFSYCVP
18408221.p PSBSNLVNBQEEFTYQCVSKGN S ENHPMILKDKDS VNRGDLVCRNPAVSSVVS KHNEMKLFCCLC - IDY PMVYHVKKML DME IDCPRLVCEYER-I P FPNTPNPEML LEVLRIRKIAEATAGALAYLHSAAPIPHYHRDVKSNNILLDDN E CVAKLONFSYCVP
18410796.p PSBSRILISWYFIVWYKGHD E BEROVSKKWSSEN S LSSFDALYRIVSSVSMGS KHNELKLFCCLF - DFL ALVCEYER HGH LNDGG1ss - gVLLWVKRILKIAEATAGALAYLHSAAPIPHYHRDVKSNNILLDDN E VTAKLSDFWFCVAP
15230390.p PSBSRILISWYFIVWYKGHD E BEROVSKKWSSEN S LSSFDALYRIVSSVSMGS KHNELKLFCCLF - fSL ALVCEYER HGH LNDGG1ss - gVLLWVKRILKIAEATAGALAYLHSAAPIPHYHRDVKSNNILLDDN E VTAKLSDFWFCVAP
22331843.p E DLSCEVACCGFYIWKGVF E DRSYIMIKRSEYK vTDYRVSEVYKGDIVSARMSN HNNELKLFCCLF - fPL ALVCEYER HGH LNDGG1ss - gVLLWVKRILKIAEATAGALAYLHSAAPIPHYHRDVKSNNILLDDN E VTAKLSDFWFCVAP
15230388.p E DSSCFVSDPYWYKWRGML E DRSYIMIKRSEDEI tgKRHRVKCIVYNDIVLSARMSN HNNELKLFCCLF - fPL ALVCEYER HGH LNDGG1ss - gVLLWVKRILKIAEATAGALAYLHSAAPIPHYHRDVKSNNILLDDN E VTAKLSDFWFCVAP
15230374.p RfdwvnyiisedrFwvYKGMF ENRPPVLIKEFQDCS vFDADNEYRDAVASSMS HNNELKLFCCLF - fPL ALVCEYER HGH LNDGG1ss - gVLLWVKRILKIAEATAGALAYLHSAAPIPHYHRDVKSNNILLDDN E VTAKLSDFWFCVAP
15231248.p FFDADHIAKDRFLWYKGHD E BERRVLIKMKEDGY VLFSSPEVYRDAVASSMS HNNELKLFCCLF - fPL ALVCEYER HGH LNDGG1ss - gVLLWVKRILKIAEATAGALAYLHSAAPIPHYHRDVKSNNILLDDN E VTAKLSDFWFCVAP
15219181.p FNASRILQOGGCVVYKGHD E DGMVAVKRSKVID KEEPLNEEFINELVLSQIN HNNELKLFCCLF - fPL ALVCEYER HGH LNDGG1ss - gVLLWVKRILKIAEATAGALAYLHSAAPIPHYHRDVKSNNILLDDN E VTAKLSDFWFCVAP
30699443.p FNMNRVLQGQGCVVYKGHD E DGRIVAKRSKVID E DKWEEFINEVGLSIN HNNELKLFCCLF - fPL ALVCEYER HGH LNDGG1ss - gVLLWVKRILKIAEATAGALAYLHSAAPIPHYHRDVKSNNILLDDN E VTAKLSDFWFCVAP
15219445.p FNMNRVLQGQGCVVYKGHD E DGRIVAKRSKVID E DKWEEFINEVGLSIN HNNELKLFCCLF - fPL ALVCEYER HGH LNDGG1ss - gVLLWVKRILKIAEATAGALAYLHSAAPIPHYHRDVKSNNILLDDN E VTAKLSDFWFCVAP
15219140.p FNMNRVLQGQGCVVYKGHD E DGRIVAKRSKAMD E DKWEEFINEVGLSIN HNNELKLFCCLF - fPL ALVCEYER HGH LNDGG1ss - gVLLWVKRILKIAEATAGALAYLHSAAPIPHYHRDVKSNNILLDDN E VTAKLSDFWFCVAP
15219134.p FNMNRVLQGQGCVVYKGHD E DGRIVAKRSKAVD E DKWEEFINEVGLSIN HNNELKLFCCLF - fPL ALVCEYER HGH LNDGG1ss - gVLLWVKRILKIAEATAGALAYLHSAAPIPHYHRDVKSNNILLDDN E VTAKLSDFWFCVAP
15219137.p FSIDRVLQGQGCVVYKGHD E DGSIVAVKRSKVID E DKEEPLNEEFINELVLSQIN HNNELKLFCCLF - fPL ALVCEYER HGH LNDGG1ss - gVLLWVKRILKIAEATAGALAYLHSAAPIPHYHRDVKSNNILLDDN E VTAKLSDFWFCVAP
15219143.p PSVKRVLQGQGCVVYKGHD E DGSIVAVKRSKVID E DKEEPLNEEFINELVLSQIN HNNELKLFCCLF - fPL ALVCEYER HGH LNDGG1ss - gVLLWVKRILKIAEATAGALAYLHSAAPIPHYHRDVKSNNILLDDN E VTAKLSDFWFCVAP
15219132.p FSIDRVLQGQGCVVYKGHD E DGSIVAVKRSKVID E DKEEPLNEEFINELVLSQIN HNNELKLFCCLF - fPL ALVCEYER HGH LNDGG1ss - gVLLWVKRILKIAEATAGALAYLHSAAPIPHYHRDVKSNNILLDDN E VTAKLSDFWFCVAP
15219130.p FSMRVLQGQGCVVYKGHD E BGRIVAKRSKVID E GEGKMEEFVWVLSQIN HNNELKLFCCLF - fPL ALVCEYER HGH LNDGG1ss - gVLLWVKRILKIAEATAGALAYLHSAAPIPHYHRDVKSNNILLDDN E VTAKLSDFWFCVAP
15219447.p FSLTRILQGQGCVVYKGHD E DGRIVAKRSKVID E DKEEPLNEEFINELVLSQIN HNNELKLFCCLF - fPL ALVCEYER HGH LNDGG1ss - gVLLWVKRILKIAEATAGALAYLHSAAPIPHYHRDVKSNNILLDDN E VTAKLSDFWFCVAP
15222427.p FSSNRILQGQGCVVYKGHD E DGRIVAKRSKVID E DKEEPLNEEFINELVLSQIN HNNELKLFCCLF - fPL ALVCEYER HGH LNDGG1ss - gVLLWVKRILKIAEATAGALAYLHSAAPIPHYHRDVKSNNILLDDN E VTAKLSDFWFCVAP
15223546.p FSBNRILQGQGCVVYKGHD E DGRIVAKRSKVID E DKEEPLNEEFINELVLSQIN HNNELKLFCCLF - fPL ALVCEYER HGH LNDGG1ss - gVLLWVKRILKIAEATAGALAYLHSAAPIPHYHRDVKSNNILLDDN E VTAKLSDFWFCVAP
15220882.p FNDNRVLQGQGCVVYKGHD E DGRIVAKRSKVID E DKEEPLNEEFINELVLSQIN HNNELKLFCCLF - fPL ALVCEYER HGH LNDGG1ss - gVLLWVKRILKIAEATAGALAYLHSAAPIPHYHRDVKSNNILLDDN E VTAKLSDFWFCVAP
30688910.p PSBSPNLVRLQGQGCVVYKGHD E DGRIVAKRSKVID E DKEEPLNEEFINELVLSQIN HNNELKLFCCLF - fPL ALVCEYER HGH LNDGG1ss - gVLLWVKRILKIAEATAGALAYLHSAAPIPHYHRDVKSNNILLDDN E VTAKLSDFWFCVAP
22329045.p PSBSPNLVRLQGQGCVVYKGHD E DGRIVAKRSKVID E DKEEPLNEEFINELVLSQIN HNNELKLFCCLF - fPL ALVCEYER HGH LNDGG1ss - gVLLWVKRILKIAEATAGALAYLHSAAPIPHYHRDVKSNNILLDDN E VTAKLSDFWFCVAP
15218959.p YHESRILQGQGCVVYKGHD DGSIVAVKRSKVID R QSCVFEPIN VVLSQIN HNNELKLFCCLF - fPL ALVCEYER HGH LNDGG1ss - gVLLWVKRILKIAEATAGALAYLHSAAPIPHYHRDVKSNNILLDDN E VTAKLSDFWFCVAP
18394970.p YABPSRILQGQGCVVYKGHD DGSIVAVKRSKVID SSQVQEOFIN VVLSQIN HNNELKLFCCLF - fPL ALVCEYER HGH LNDGG1ss - gVLLWVKRILKIAEATAGALAYLHSAAPIPHYHRDVKSNNILLDDN E VTAKLSDFWFCVAP
15218171.p YDBSRILQGQGCVVYKGHD DGSIVAVKRSKVID S QVQDQFIFIN VVLSQIN HNNELKLFCCLF - fPL ALVCEYER HGH LNDGG1ss - gVLLWVKRILKIAEATAGALAYLHSAAPIPHYHRDVKSNNILLDDN E VTAKLSDFWFCVAP
15218170.p YNBPSRILQGQGCVVYKGHD DGSIVAVKRSKVID R QSCVFEPIN VVLSQIN HNNELKLFCCLF - fPL ALVCEYER HGH LNDGG1ss - gVLLWVKRILKIAEATAGALAYLHSAAPIPHYHRDVKSNNILLDDN E VTAKLSDFWFCVAP
15218167.p YDENRILQGQGCVVYKGHD DGSIVAVKRSKVID NSQVEOFIN VVLSQIN HNNELKLFCCLF - fPL ALVCEYER HGH LNDGG1ss - gVLLWVKRILKIAEATAGALAYLHSAAPIPHYHRDVKSNNILLDDN E VTAKLSDFWFCVAP
15230844.p YDNPVILQGQGCVVYKGHD DGSIVAVKRSKVID R QSCVFEPIN VVLSQIN HNNELKLFCCLF - fPL ALVCEYER HGH LNDGG1ss - gVLLWVKRILKIAEATAGALAYLHSAAPIPHYHRDVKSNNILLDDN E VTAKLSDFWFCVAP
61820005.q PSRDNLLQAGCGEVYKGHD DGRIVAKRSKVID TKSTEVILVNEVRLVLSQIN HNNELKLFCCLF - fPL ALVCEYER HGH LNDGG1ss - gVLLWVKRILKIAEATAGALAYLHSAAPIPHYHRDVKSNNILLDDN E VTAKLSDFWFCVAP
15241674.p FSNDRNLLQGQGCVVYKGHD DGRIVAKRSKVID TKGIDTILHAKLNN DME IDCPRLVCEYER HGH LNDGG1ss - gVLLWVKRILKIAEATAGALAYLHSAAPIPHYHRDVKSNNILLDDN E VTAKLSDFWFCVAP
15232348.p PAKNLILQGQGCVVYKGHD DGTIVVAKRPAKLGK E KSIYLVIVNEVQLCOVS HNNELKLFCCLF - fPL ALVCEYER HGH LNDGG1ss - gVLLWVKRILKIAEATAGALAYLHSAAPIPHYHRDVKSNNILLDDN E VTAKLSDFWFCVAP
15222572.p FSKDRLQDGCGCVVYKGHD DGREVAKRPAKLGK E YRRLQEFMNSIEITLRLH HNNELKLFCCLF - fPL ALVCEYER HGH LNDGG1ss - gVLLWVKRILKIAEATAGALAYLHSAAPIPHYHRDVKSNNILLDDN E VTAKLSDFWFCVAP
AK072170.q FSDARELQDGCGCVVYKGHD DGRIVAKRPAKLGK E YKVEQOFNVEVLSLRLR HNNELKLFCCLF - fPL ALVCEYER HGH LNDGG1ss - gVLLWVKRILKIAEATAGALAYLHSAAPIPHYHRDVKSNNILLDDN E VTAKLSDFWFCVAP
83520118.p FSAFTRLDQDGCGCVVYKGHD DGRIVAKRPAKLGK E YKVEQOFNVEVLSLRLR HNNELKLFCCLF - fPL ALVCEYER HGH LNDGG1ss - gVLLWVKRILKIAEATAGALAYLHSAAPIPHYHRDVKSNNILLDDN E VTAKLSDFWFCVAP
AK065470.q PSISRELDQDGCGCVVYKGHD DGRIVAKRPAKLGK E YKVEQOFNVEVLSLRLR HNNELKLFCCLF - fPL ALVCEYER HGH LNDGG1ss - gVLLWVKRILKIAEATAGALAYLHSAAPIPHYHRDVKSNNILLDDN E VTAKLSDFWFCVAP
83534240.q FSDARELDQDGCGCVVYKGHD DGRIVAKRPAKLGK E YKVEQOFNVEVLSLRLR HNNELKLFCCLF - fPL ALVCEYER HGH LNDGG1ss - gVLLWVKRILKIAEATAGALAYLHSAAPIPHYHRDVKSNNILLDDN E VTAKLSDFWFCVAP
AK066381.p FNEPREDQDGCGCVVYKGHD DGRIVAKRPAKLGK E YKVEQOFNVEVLSLRLR HNNELKLFCCLF - fPL ALVCEYER HGH LNDGG1ss - gVLLWVKRILKIAEATAGALAYLHSAAPIPHYHRDVKSNNILLDDN E VTAKLSDFWFCVAP
AK102164.q FNEPREDQDGCGCVVYKGHD DGRIVAKRPAKLGK E YKVEQOFNVEVLSLRLR HNNELKLFCCLF - fPL ALVCEYER HGH LNDGG1ss - gVLLWVKRILKIAEATAGALAYLHSAAPIPHYHRDVKSNNILLDDN E VTAKLSDFWFCVAP
15221764.p FSDSKELDQDGCGCVVYKGHD DGRIVAKRPAKLGK FKRSLAEFRNEVEILTSRLR HNNELKLFCCLF - fPL ALVCEYER HGH LNDGG1ss - gVLLWVKRILKIAEATAGALAYLHSAAPIPHYHRDVKSNNILLDDN E VTAKLSDFWFCVAP
30697422.p BNFRELDQDGCGCVVYKGHD DGRIVAKRPAKLGK LKRVKNEOBNEVILTSRLR HNNELKLFCCLF - fPL ALVCEYER HGH LNDGG1ss - gVLLWVKRILKIAEATAGALAYLHSAAPIPHYHRDVKSNNILLDDN E VTAKLSDFWFCVAP
22327431.p E NPSKRELDQDGCGCVVYKGHD DGRIVAKRPAKLGK LKRVKNEOBNEVILTSRLR HNNELKLFCCLF - fPL ALVCEYER HGH LNDGG1ss - gVLLWVKRILKIAEATAGALAYLHSAAPIPHYHRDVKSNNILLDDN E VTAKLSDFWFCVAP
67060018.g PDRSKRDLQDGCGCVVYKGHD - P GGRPAVAKRPAKLGK D SATIKPS CNEVILVLSLRLR HNNELKLFCCLF - fPL ALVCEYER HGH LNDGG1ss - gVLLWVKRILKIAEATAGALAYLHSAAPIPHYHRDVKSNNILLDDN E VTAKLSDFWFCVAP
15222495.p PDRKRKIDQDGCGCVVYKGHD DGSQLLAVKRLHHHH aFSMKPFCNCIEIPLLSRLR HNNELKLFCCLF - fPL ALVCEYER HGH LNDGG1ss - gVLLWVKRILKIAEATAGALAYLHSAAPIPHYHRDVKSNNILLDDN E VTAKLSDFWFCVAP
62820010.q FSHTHRLQGTCAYCVYKGHD AsSPSPVIAKRMRRRdd gdDDAAVAVILVNEVFKLISLSS HNNELKLFCCLF - fPL ALVCEYER HGH LNDGG1ss - gVLLWVKRILKIAEATAGALAYLHSAAPIPHYHRDVKSNNILLDDN E VTAKLSDFWFCVAP
AK072425.q FSHTHRLQGTCAYCVYKGHD A SPSPLVIAKRMRRRHH gddAAVAVILVNEVFKLISLSS HNNELKLFCCLF - fPL ALVCEYER HGH LNDGG1ss - gVLLWVKRILKIAEATAGALAYLHSAAPIPHYHRDVKSNNILLDDN E VTAKLSDFWFCVAP
AK101690.q FAEDQRQLTAYCVYKGHD NNRLIVAVKRLKORD NA E DLRVNEVILTSRLR HNNELKLFCCLF - fPL ALVCEYER HGH LNDGG1ss - gVLLWVKRILKIAEATAGALAYLHSAAPIPHYHRDVKSNNILLDDN E VTAKLSDFWFCVAP
30698255.p FSDKNMIGTCAYCVYKGHD NSSCVAIKRPAKLGK TTSJDVWNEIJKLSSVS HNNELKLFCCLF - fPL ALVCEYER HGH LNDGG1ss - gVLLWVKRILKIAEATAGALAYLHSAAPIPHYHRDVKSNNILLDDN E VTAKLSDFWFCVAP
18400282.p PSEKQKLOLICAYCVYKGHD NDEVAIKRPAKLGK SEEDQVWNEIJKLSSVS HNNELKLFCCLF - fPL ALVCEYER HGH LNDGG1ss - gVLLWVKRILKIAEATAGALAYLHSAAPIPHYHRDVKSNNILLDDN E VTAKLSDFWFCVAP
30682087.p PSEKQKLOLICAYCVYKGHD NDEVAIKRPAKLGK SESDQVWNEIJKLSSVS HNNELKLFCCLF - fPL ALVCEYER HGH LNDGG1ss - gVLLWVKRILKIAEATAGALAYLHSAAPIPHYHRDVKSNNILLDDN E VTAKLSDFWFCVAP
15241606.p FEDKLIILQGCGFVYVYKGHD GATIVVAKRPAKLGK NOCAKEEPLNELEMSLRLR HNNELKLFCCLF - fPL ALVCEYER HGH LNDGG1ss - gVLLWVKRILKIAEATAGALAYLHSAAPIPHYHRDVKSNNILLDDN E VTAKLSDFWFCVAP
15241605.p FEEKLLIIQGCGFVYVYKGHD gATIVVAKRPAKLGK NOCAKEEPLNELEMSLRLR HNNELKLFCCLF - fPL ALVCEYER HGH LNDGG1ss - gVLLWVKRILKIAEATAGALAYLHSAAPIPHYHRDVKSNNILLDDN E VTAKLSDFWFCVAP
AK071644.q PSNDLAQKLGCGFVYVYKGHD GDYVKAIVKRSNPSS EOCIDTEFQEVEVNLSSRLR HNNELKLFCCLF - fPL ALVCEYER HGH LNDGG1ss - gVLLWVKRILKIAEATAGALAYLHSAAPIPHYHRDVKSNNILLDDN E VTAKLSDFWFCVAP
15241880.p PDEBNVILQGCGFVYVYKGHD DGSIVAVKRLKORD NCTTAVKRSNPLS HNNELKLFCCLF - fPL ALVCEYER HGH LNDGG1ss - gVLLWVKRILKIAEATAGALAYLHSAAPIPHYHRDVKSNNILLDDN E VTAKLSDFWFCVAP
152229329.p EDDNVIGVQGCFVYVYKGHD GTTAVKRSNPLS HNNELKLFCCLF - fPL ALVCEYER HGH LNDGG1ss - gVLLWVKRILKIAEATAGALAYLHSAAPIPHYHRDVKSNNILLDDN E VTAKLSDFWFCVAP
15230520.p EDDSVRLVQGCFVYVYKGHD DGTTAVKRSNPLS HNNELKLFCCLF - fPL ALVCEYER HGH LNDGG1ss - gVLLWVKRILKIAEATAGALAYLHSAAPIPHYHRDVKSNNILLDDN E VTAKLSDFWFCVAP
AK099791.q PDEBLLQVQGCFVYVYKGHD G ATIVVAKRPAKLGK EOCIVBEPQIEIEMSLRLR HNNELKLFCCLF - fPL ALVCEYER HGH LNDGG1ss - gVLLWVKRILKIAEATAGALAYLHSAAPIPHYHRDVKSNNILLDDN E VTAKLSDFWFCVAP
AK101775.q PDEBLLQVQGCFVYVYKGHD G gATIVVAKRPAKLGK EOCIVBEPQIEIEMSLRLR HNNELKLFCCLF - fPL ALVCEYER HGH LNDGG1ss - gVLLWVKRILKIAEATAGALAYLHSAAPIPHYHRDVKSNNILLDDN E VTAKLSDFWFCVAP
61820011.q EDRKFLLQVQGCFVYVYKGHD S GTRIVAKRPAKLGK EOCIVBEPQIEIEMSLRLR HNNELKLFCCLF - fPL ALVCEYER HGH LNDGG1ss - gVLLWVKRILKIAEATAGALAYLHSAAPIPHYHRDVKSNNILLDDN E VTAKLSDFWFCVAP
50010003.q PDEFLLQVQGCFVYVYKGHD DGSIVAVKRLKORD NCTTAVKRSNPLS HNNELKLFCCLF - fPL ALVCEYER HGH LNDGG1ss - gVLLWVKRILKIAEATAGALAYLHSAAPIPHYHRDVKSNNILLDDN E VTAKLSDFWFCVAP
AK065965.q PDEBLLQVQGCFVYVYKGHD D N DEVAIKRPAKLGK VQCBEPQIEIEMSLRLR HNNELKLFCCLF - fPL ALVCEYER HGH LNDGG1ss - gVLLWVKRILKIAEATAGALAYLHSAAPIPHYHRDVKSNNILLDDN E VTAKLSDFWFCVAP
15239630.q PDEBLLQVQGCFVYVYKGHD E DGTIVVAKRPAKLGK EOCIVBEPQIEIEMSLRLR HNNELKLFCCLF - fPL ALVCEYER HGH LNDGG1ss - gVLLWVKRILKIAEATAGALAYLHSAAPIPHYHRDVKSNNILLDDN E VTAKLSDFWFCVAP
15237872.p PDRSLVIGVQGCFVYVYKGHD DNKTAIVKRSNPLS ROCPLFPELSEIILVLSLRLR HNNELKLFCCLF - fPL ALVCEYER HGH LNDGG1ss - gVLLWVKRILKIAEATAGALAYLHSAAPIPHYHRDVKSNNILLDDN E VTAKLSDFWFCVAP
14630007.q FEKCAVIVQGCFVYVYKGHD DGTIVVAKRPAKLGK DGTIVVAKRPAKLGK EOCIVBEPQIEIEMSLRLR HNNELKLFCCLF - fPL ALVCEYER HGH LNDGG1ss - gVLLWVKRILKIAEATAGALAYLHSAAPIPHYHRDVKSNNILLDDN E VTAKLSDFWFCVAP
30190023.q FEESAIIVQGCFVYVYKGHD DGTIVVAKRPAKLGK EOCIVBEPQIEIEMSLRLR HNNELKLFCCLF - fPL ALVCEYER HGH LNDGG1ss - gVLLWVKRILKIAEATAGALAYLHSAAPIPHYHRDVKSNNILLDDN E VTAKLSDFWFCVAP
15240228.p EDEAVAVCQVQGCFVYVYKGHD GGTQVAIKRSQSS EOCIVBEPQIEIEMSLRLR HNNELKLFCCLF - fPL ALVCEYER HGH LNDGG1ss - gVLLWVKRILKIAEATAGALAYLHSAAPIPHYHRDVKSNNILLDDN E VTAKLSDFWFCVAP

AK100700.Q BENSILLQGDSFCEMYRGRIG NGHLVAIRSLKVKR NQSSLPSRSIEPISRLR HRNLVSLALGHCPREYDITQLYLVFEYVN GNDLRSFISQGTBEgrk LIVWAGRISSAIDGNGHOFLHAGMPGIFGNLKLNNILLDDN -HVAKISSCYNIPIDG
18396600.P BESSAFMCGESOOSCYVRCPK DGSFLVNLCKEOLYKGCL REGIAVAVTVCIXL KCGNSTONLAQOMEVLSLR HRLVSLVGHLCIYST STIFIVYEYISN GSDRDLYTDWRKRev -LAAKLSDSNSYLPEVEGLG
15223744.P BDAASLFLCQEOLYRGCLREG ipVTVVRLKIKOKS LPOSLAQ-EVVLSKLR HMLVSLVGHCHIASN htifIVYEYIS GSDRDLTNCRKRev -LTWKLSSYSPSLPSKLLI
30678025.P BDAASLFLCQEOLYRGCLREG KKYSLNRLKFLDLILKLR HPLNVLGLLGHCPREYDITQLYLVFEYVN GNDLRSFISQGTBEgrk LIVWAGRISSAIDGNGHOFLHAGMPGIFGNLKLNNILLDDN -HVAKISSCYNIPIDG
18424704.P BDKTMILGESESSLYGTLKGNLE NGKGVAVRCR-PSS RKFQSSOLSRGHDLMARLN HPHLVEBLGHCTOTS-tilyLVYEPN GSDRDLTNCRKRev -LAAKLSDSNSYLPEVEGLG
15241340.P BDSRFSLNCLCQEOLYKGCL REGIAVAVTVCIXL KCGNSTONLAQOMEVLSLR HMLVSLVGHCHIASN htifIVYEYIS GSDRDLTNCRKRev -LTWKLSSYSPSLPSKLLI
15234944.P FEASQIIGVGGFENVYHGID DGTQKVAVKRNPQS EOCITTEFQEIQMLSKLR HRLVSLVGHCDEN SEMILVYEFMSN GPFDRDHLYKKNLap LIVWAGRISSAIDGNGHOFLHAGMPGIFGNLKLNNILLDDN -RFAKLDSDYGLSIS
15226565.P DDEAIIIGVGGFENVYHGID DGTQKVAVKRNPQS EOCITTEFQEIQMLSKLR HRLVSLVGHCDEN SEMILVYEFMSN GPFDRDHLYKKNLap LIVWAGRISSAIDGNGHOFLHAGMPGIFGNLKLNNILLDDN -LVAKAVDGFGLSKDV
15227790.P BDEOLLICKGGFCVVYKAHP DGTQKVAVKRNPQS GOCILEPQEIQVLSLR HRLVSLVGHCDEN SEMILVYEFMSN GPFDRDHLYKKNLap LIVWAGRISSAIDGNGHOFLHAGMPGIFGNLKLNNILLDDN -LVAKAVDGFGLSKDV
15225078.P BDESLVIVQVGCFKVVYKVR DKTVEAVKRKAQPS ROSAEFLPKIEVEMLTDFR HRLVSLVGHCDEN SEMILVYEFMSN GPFDRDHLYKKNLap LIVWAGRISSAIDGNGHOFLHAGMPGIFGNLKLNNILLDDN -LVAKAVDGFGLSKDV
AK102834.Q FDDSLVIVQVGCFKVVYKVR DGTQKVAVKRNPQS QKEEFLPKIEVEMLTDFR HRLVSLVGHCDEN SEMILVYEFMSN GPFDRDHLYKKNLap LIVWAGRISSAIDGNGHOFLHAGMPGIFGNLKLNNILLDDN -FVAKADMFGLSKDG
AK065956.Q FDEALLIGTGGCFKVVYKVR DGTQKVAVKRNPQS QKEEFLPKIEVEMLTDFR HRLVSLVGHCDEN SEMILVYEFMSN GPFDRDHLYKKNLap LIVWAGRISSAIDGNGHOFLHAGMPGIFGNLKLNNILLDDN -FVAKADMFGLSKDG
15221443.P FDDGLAIGTGGCFKVVYKVR DGTQKVAVKRNPQS QKEEFLPKIEVEMLTDFR HRLVSLVGHCDEN SEMILVYEFMSN GPFDRDHLYKKNLap LIVWAGRISSAIDGNGHOFLHAGMPGIFGNLKLNNILLDDN -FVAKADMFGLSKDG
15238498.P FDETRAKQVGGFENVYHGID DGTQKVAVKRNPQS QKEEFLPKIEVEMLTDFR HRLVSLVGHCDEN SEMILVYEFMSN GPFDRDHLYKKNLap LIVWAGRISSAIDGNGHOFLHAGMPGIFGNLKLNNILLDDN -FVAKADMFGLSKDG
15231393.P FDBSRNKGCGFCVVYKVR DGTQKVAVKRNPQS QKEEFLPKIEVEMLTDFR HRLVSLVGHCDEN SEMILVYEFMSN GPFDRDHLYKKNLap LIVWAGRISSAIDGNGHOFLHAGMPGIFGNLKLNNILLDDN -FVAKADMFGLSKDG
AK100137.Q FEEPMVIVQVGCFKVVYKVR DGTQKVAVKRNPQS QOCILEPQEIQVLSLR HRLVSLVGHCDEN SEMILVYEFMSN GPFDRDHLYKKNLap LIVWAGRISSAIDGNGHOFLHAGMPGIFGNLKLNNILLDDN -FVAKADMFGLSKDG
49980016.Q FDEGMVIVQVGCFKVVYKVR DGTQKVAVKRNPQS QOCILEPQEIQVLSLR HRLVSLVGHCDEN SEMILVYEFMSN GPFDRDHLYKKNLap LIVWAGRISSAIDGNGHOFLHAGMPGIFGNLKLNNILLDDN -FVAKADMFGLSKDG
AK065468.Q FDEMVIVQVGCFKVVYKVR DGTQKVAVKRNPQS QOCILEPQEIQVLSLR HRLVSLVGHCDEN SEMILVYEFMSN GPFDRDHLYKKNLap LIVWAGRISSAIDGNGHOFLHAGMPGIFGNLKLNNILLDDN -FVAKADMFGLSKDG
AK099840.Q FDECIVLQEGCFKVVYKVR DGTQKVAVKRNPQS ROCAREERIENIEMLSLR HRLVSLVGHCDEN SEMILVYEFMSN GPFDRDHLYKKNLap LIVWAGRISSAIDGNGHOFLHAGMPGIFGNLKLNNILLDDN -FVAKADMFGLSKDG
AK102524.Q FENERLIVQVGCFENVYHGID DGTQKVAVKRNPQS KOCLPREFQDIEVLSLR HRLVSLVGHCDEN SEMILVYEFMSN GPFDRDHLYKKNLap LIVWAGRISSAIDGNGHOFLHAGMPGIFGNLKLNNILLDDN -FVAKADMFGLSKDG
AK070172.Q FDDANILQVGCFENVYHGID DGTQKVAVKRNPQS KOCLPREFQDIEVLSLR HRLVSLVGHCDEN SEMILVYEFMSN GPFDRDHLYKKNLap LIVWAGRISSAIDGNGHOFLHAGMPGIFGNLKLNNILLDDN -FVAKADMFGLSKDG
33330013.Q FSEANLVGLGCFEVVYKVR DGTQKVAVKRNPQS ROEEFAEVRLKSLINR HRLVSLVGHCDEN SEMILVYEFMSN GPFDRDHLYKKNLap LIVWAGRISSAIDGNGHOFLHAGMPGIFGNLKLNNILLDDN -FVAKADMFGLSKDG
28640019.Q FSDANLVGLGCFEVVYKVR DGTQKVAVKRNPQS RODFEDVKEVRLKSLINR HRLVSLVGHCDEN SEMILVYEFMSN GPFDRDHLYKKNLap LIVWAGRISSAIDGNGHOFLHAGMPGIFGNLKLNNILLDDN -FVAKADMFGLSKDG
43850013.Q PSNVNLIGHCPEEVVYKVR DGTQKVAVKRNPQS SHETIPEVNLSSLR HRLVSLVGHCDEN SEMILVYEFMSN GPFDRDHLYKKNLap LIVWAGRISSAIDGNGHOFLHAGMPGIFGNLKLNNILLDDN -FVAKADMFGLSKDG
30688460.Q PTKNSLICKEVYKVR DGTQKVAVKRNPQS T-QEEFNEVYRQDQ HRLVSLVGHCDEN SEMILVYEFMSN GPFDRDHLYKKNLap LIVWAGRISSAIDGNGHOFLHAGMPGIFGNLKLNNILLDDN -FVAKADMFGLSKDG
15233069.Q PDMNTIGHOSHCHVYVYGHID KDPVMDLICHREWCS HRLVSLVGHCDEN SEMILVYEFMSN GPFDRDHLYKKNLap LIVWAGRISSAIDGNGHOFLHAGMPGIFGNLKLNNILLDDN -FVAKADMFGLSKDG
23508411.Z PSEYNRINKGCGCNVYVYKVR NCINVAIKMKNE NCQMAKLAQKQQGS HRLVSLVGHCDEN SEMILVYEFMSN GPFDRDHLYKKNLap LIVWAGRISSAIDGNGHOFLHAGMPGIFGNLKLNNILLDDN -FVAKADMFGLSKDG
83505619.Q PSETQBESGGYEVVYKVR DGTQKVAVKRNPQS MOCAAEFKNEIEMLSLR HRLVSLVGHCDEN SEMILVYEFMSN GPFDRDHLYKKNLap LIVWAGRISSAIDGNGHOFLHAGMPGIFGNLKLNNILLDDN -FVAKADMFGLSKDG
AK105683.Q PSETQBESGGYEVVYKVR DGTQKVAVKRNPQS MOCAAEFKNEIEMLSLR HRLVSLVGHCDEN SEMILVYEFMSN GPFDRDHLYKKNLap LIVWAGRISSAIDGNGHOFLHAGMPGIFGNLKLNNILLDDN -FVAKADMFGLSKDG
83601963.Q FAEANEGLYSGCFEVVYKVR DGTQKVAVKRNPQS MOGCBEEFKNEIEMLSLR HRLVSLVGHCDEN SEMILVYEFMSN GPFDRDHLYKKNLap LIVWAGRISSAIDGNGHOFLHAGMPGIFGNLKLNNILLDDN -FVAKADMFGLSKDG
30699436.P FSVIICKEVYKVR DGTQKVAVKRNPQS TCOGLKEPKIEVLSLR HRLVSLVGHCDEN SEMILVYEFMSN GPFDRDHLYKKNLap LIVWAGRISSAIDGNGHOFLHAGMPGIFGNLKLNNILLDDN -FVAKADMFGLSKDG
AK070264.Q FRETINAQAGGYCVYKVR DGTQKVAVKRNPQS TCOGLKEPKIEVLSLR HRLVSLVGHCDEN SEMILVYEFMSN GPFDRDHLYKKNLap LIVWAGRISSAIDGNGHOFLHAGMPGIFGNLKLNNILLDDN -FVAKADMFGLSKDG
53130006.Q FSDANDIGTGGCFEVVYKVR DGTQKVAVKRNPQS LOCNLEERIENIEMLSLR HRLVSLVGHCDEN SEMILVYEFMSN GPFDRDHLYKKNLap LIVWAGRISSAIDGNGHOFLHAGMPGIFGNLKLNNILLDDN -FVAKADMFGLSKDG
AK068774.Q FSEANDIGTGGCFEVVYKVR DGTQKVAVKRNPQS LOCNLEERIENIEMLSLR HRLVSLVGHCDEN SEMILVYEFMSN GPFDRDHLYKKNLap LIVWAGRISSAIDGNGHOFLHAGMPGIFGNLKLNNILLDDN -FVAKADMFGLSKDG
15240549.Q FSVANDVGGGGCCEVYKVR DGTQKVAVKRNPQS SGQIQLAVKRNPQS HRLVSLVGHCDEN SEMILVYEFMSN GPFDRDHLYKKNLap LIVWAGRISSAIDGNGHOFLHAGMPGIFGNLKLNNILLDDN -FVAKADMFGLSKDG
15240547.P FSDANDVGGGGCCEVYKVR DGTQKVAVKRNPQS SGQIQLAVKRNPQS HRLVSLVGHCDEN SEMILVYEFMSN GPFDRDHLYKKNLap LIVWAGRISSAIDGNGHOFLHAGMPGIFGNLKLNNILLDDN -FVAKADMFGLSKDG
30695748.P FSEANDVGGGGCCEVYKVR DGTQKVAVKRNPQS SGQIQLAVKRNPQS HRLVSLVGHCDEN SEMILVYEFMSN GPFDRDHLYKKNLap LIVWAGRISSAIDGNGHOFLHAGMPGIFGNLKLNNILLDDN -FVAKADMFGLSKDG
15240244.P FSDLISOKRGGYEVVYKVR DGTQKVAVKRNPQS SGQIQLAVKRNPQS HRLVSLVGHCDEN SEMILVYEFMSN GPFDRDHLYKKNLap LIVWAGRISSAIDGNGHOFLHAGMPGIFGNLKLNNILLDDN -FVAKADMFGLSKDG
AK070254.Q FTDQAQVQGGYEVVYKVR DGTQKVAVKRNPQS SGQIQLAVKRNPQS HRLVSLVGHCDEN SEMILVYEFMSN GPFDRDHLYKKNLap LIVWAGRISSAIDGNGHOFLHAGMPGIFGNLKLNNILLDDN -FVAKADMFGLSKDG
43660018.Q FSDALICQGGYEVVYKVR DGTQKVAVKRNPQS SGQIQLAVKRNPQS HRLVSLVGHCDEN SEMILVYEFMSN GPFDRDHLYKKNLap LIVWAGRISSAIDGNGHOFLHAGMPGIFGNLKLNNILLDDN -FVAKADMFGLSKDG
15222211.P FNSSTCIOQGGYEVVYKVR DGTQKVAVKRNPQS SGQIQLAVKRNPQS HRLVSLVGHCDEN SEMILVYEFMSN GPFDRDHLYKKNLap LIVWAGRISSAIDGNGHOFLHAGMPGIFGNLKLNNILLDDN -FVAKADMFGLSKDG
30679474.P FTSSTCIOQGGYEVVYKVR DGTQKVAVKRNPQS SGQIQLAVKRNPQS HRLVSLVGHCDEN SEMILVYEFMSN GPFDRDHLYKKNLap LIVWAGRISSAIDGNGHOFLHAGMPGIFGNLKLNNILLDDN -FVAKADMFGLSKDG
15231843.Q FDSSTLICRGSYEVVYKVR DGTQKVAVKRNPQS SGQIQLAVKRNPQS HRLVSLVGHCDEN SEMILVYEFMSN GPFDRDHLYKKNLap LIVWAGRISSAIDGNGHOFLHAGMPGIFGNLKLNNILLDDN -FVAKADMFGLSKDG
AK099778.Q CNEFKDULIGECCFGSCEVYKVR DGTQKVAVKRNPQS HGTGEEVAVKVRSTSS HRLVSLVGHCDEN SEMILVYEFMSN GPFDRDHLYKKNLap LIVWAGRISSAIDGNGHOFLHAGMPGIFGNLKLNNILLDDN -FVAKADMFGLSKDG
18408845.P DNFSKKRQSFESVYVYKVR DGTQKVAVKRNPQS DKEKEVAKLTAHPS HRLVSLVGHCDEN SEMILVYEFMSN GPFDRDHLYKKNLap LIVWAGRISSAIDGNGHOFLHAGMPGIFGNLKLNNILLDDN -FVAKADMFGLSKDG
72200021.Q DKFRDRIGSCGCFEVVYKVR DGTQKVAVKRNPQS DKEKEVAKLTAHPS HRLVSLVGHCDEN SEMILVYEFMSN GPFDRDHLYKKNLap LIVWAGRISSAIDGNGHOFLHAGMPGIFGNLKLNNILLDDN -FVAKADMFGLSKDG
AK101189.Q DKFRDRIGSCGCFEVVYKVR DGTQKVAVKRNPQS DKEKEVAKLTAHPS HRLVSLVGHCDEN SEMILVYEFMSN GPFDRDHLYKKNLap LIVWAGRISSAIDGNGHOFLHAGMPGIFGNLKLNNILLDDN -FVAKADMFGLSKDG
83507008.Q SKAPKSGCFCVVYVYKVR DGTQKVAVKRNPQS DKEKEVAKLTAHPS HRLVSLVGHCDEN SEMILVYEFMSN GPFDRDHLYKKNLap LIVWAGRISSAIDGNGHOFLHAGMPGIFGNLKLNNILLDDN -FVAKADMFGLSKDG
15228078.P KKEFKEKRGCGFCVVYVYKVR DGTQKVAVKRNPQS DKEKEVAKLTAHPS HRLVSLVGHCDEN SEMILVYEFMSN GPFDRDHLYKKNLap LIVWAGRISSAIDGNGHOFLHAGMPGIFGNLKLNNILLDDN -FVAKADMFGLSKDG
152339694.P NFKEVIGRGSFCEVYKVR DGTQKVAVKRNPQS DKEKEVAKLTAHPS HRLVSLVGHCDEN SEMILVYEFMSN GPFDRDHLYKKNLap LIVWAGRISSAIDGNGHOFLHAGMPGIFGNLKLNNILLDDN -FVAKADMFGLSKDG
83560345.Q SFTTLLIGQCAFCEVYKVR DGTQKVAVKRNPQS DKEKEVAKLTAHPS HRLVSLVGHCDEN SEMILVYEFMSN GPFDRDHLYKKNLap LIVWAGRISSAIDGNGHOFLHAGMPGIFGNLKLNNILLDDN -FVAKADMFGLSKDG
30696480.P NFDTTLLIGQCAFCEVYKVR DGTQKVAVKRNPQS DKEKEVAKLTAHPS HRLVSLVGHCDEN SEMILVYEFMSN GPFDRDHLYKKNLap LIVWAGRISSAIDGNGHOFLHAGMPGIFGNLKLNNILLDDN -FVAKADMFGLSKDG
30696478.Q CNFTTLLIGQCAFCEVYKVR DGTQKVAVKRNPQS DKEKEVAKLTAHPS HRLVSLVGHCDEN SEMILVYEFMSN GPFDRDHLYKKNLap LIVWAGRISSAIDGNGHOFLHAGMPGIFGNLKLNNILLDDN -FVAKADMFGLSKDG
18417765.Q CNFTTLLIGQCAFCEVYKVR DGTQKVAVKRNPQS DKEKEVAKLTAHPS HRLVSLVGHCDEN SEMILVYEFMSN GPFDRDHLYKKNLap LIVWAGRISSAIDGNGHOFLHAGMPGIFGNLKLNNILLDDN -FVAKADMFGLSKDG
30694632.P NDFPNTVQIQCFCVVYVYKVR DGTQKVAVKRNPQS DKEKEVAKLTAHPS HRLVSLVGHCDEN SEMILVYEFMSN GPFDRDHLYKKNLap LIVWAGRISSAIDGNGHOFLHAGMPGIFGNLKLNNILLDDN -FVAKADMFGLSKDG
59970008.Q FSAIIEFLCQEOLYKGCL DGTQKVAVKRNPQS DKEKEVAKLTAHPS HRLVSLVGHCDEN SEMILVYEFMSN GPFDRDHLYKKNLap LIVWAGRISSAIDGNGHOFLHAGMPGIFGNLKLNNILLDDN -FVAKADMFGLSKDG
30688287.P TEGRFRKIVYINYHGSAYRAKF KCGGEVAVKVRCTALD LGREREDEEVOLLGRRLR HRLVSLVGHCDEN SEMILVYEFMSN GPFDRDHLYKKNLap LIVWAGRISSAIDGNGHOFLHAGMPGIFGNLKLNNILLDDN -FVAKADMFGLSKDG
30688291.P TEGRFRKIVYINYHGSAYRAKF KCGGEVAVKVRCTALD LGREREDEEVOLLGRRLR HRLVSLVGHCDEN SEMILVYEFMSN GPFDRDHLYKKNLap LIVWAGRISSAIDGNGHOFLHAGMPGIFGNLKLNNILLDDN -FVAKADMFGLSKDG
18402188.P BDEPAVIVQGGFCVVYVYKVR DGTQKVAVKRNPQS DKEKEVAKLTAHPS HRLVSLVGHCDEN SEMILVYEFMSN GPFDRDHLYKKNLap LIVWAGRISSAIDGNGHOFLHAGMPGIFGNLKLNNILLDDN -FVAKADMFGLSKDG
AK102046.Q NNFSVPIVKGCGFCVVYVYKVR DGTQKVAVKRNPQS DKEKEVAKLTAHPS HRLVSLVGHCDEN SEMILVYEFMSN GPFDRDHLYKKNLap LIVWAGRISSAIDGNGHOFLHAGMPGIFGNLKLNNILLDDN -FVAKADMFGLSKDG
AK064161.Q PNFGTVLGCGECIFKHCVKR DGTQKVAVKRNPQS KOGOEEFLCKEMEMLLRLR HRLVSLVGHCDEN SEMILVYEFMSN GPFDRDHLYKKNLap LIVWAGRISSAIDGNGHOFLHAGMPGIFGNLKLNNILLDDN -FVAKADMFGLSKDG
83523572.Q -NVVQOIAIAKVGCGFCVVYVYKVR DGTQKVAVKRNPQS HAEPEFLRVTSLSLR HRLVSLVGHCDEN SEMILVYEFMSN GPFDRDHLYKKNLap LIVWAGRISSAIDGNGHOFLHAGMPGIFGNLKLNNILLDDN -FVAKADMFGLSKDG
62680017.Q YDEKLILLQCGCAKVGCGFCVVYVYKVR DGTQKVAVKRNPQS SGQIQLAVKLTAHPS HRLVSLVGHCDEN SEMILVYEFMSN GPFDRDHLYKKNLap LIVWAGRISSAIDGNGHOFLHAGMPGIFGNLKLNNILLDDN -FVAKADMFGLSKDG
44400022.Q NNFSOIIKGCGFCVVYVYKVR DGTQKVAVKRNPQS IAESKDELBEFLPQSRGdn SAHVIRLQFRCgggYCDR GSVSQFPEYQSFISVLSIYienwvtyghry HRLVSLVGHCDEN SEMILVYEFMSN GPFDRDHLYKKNLap LIVWAGRISSAIDGNGHOFLHAGMPGIFGNLKLNNILLDDN -FVAKADMFGLSKDG
44400021.Q NNFSOIIKGCGFCVVYVYKVR DGTQKVAVKRNPQS IAESKDELBEFLPQSRGdn SAHVIRLQFRCgggYCDR GSVSQFPEYQSFISVLSIYienwvtyghry HRLVSLVGHCDEN SEMILVYEFMSN GPFDRDHLYKKNLap LIVWAGRISSAIDGNGHOFLHAGMPGIFGNLKLNNILLDDN -FVAKADMFGLSKDG
72170001.Q DSFKTIIIGRCGFCVVYVYKVR DGTQKVAVKRNPQS NGTPAVAVKRNPQS HRLVSLVGHCDEN SEMILVYEFMSN GPFDRDHLYKKNLap LIVWAGRISSAIDGNGHOFLHAGMPGIFGNLKLNNILLDDN -FVAKADMFGLSKDG
44970023.Q NDWRNVIQCGFCVVYVYKVR DGTQKVAVKRNPQS NGTPAVAVKRNPQS HRLVSLVGHCDEN SEMILVYEFMSN GPFDRDHLYKKNLap LIVWAGRISSAIDGNGHOFLHAGMPGIFGNLKLNNILLDDN -FVAKADMFGLSKDG
83593605.Q NNFSOIIKGCGFCVVYVYKVR DGTQKVAVKRNPQS NGTPAVAVKRNPQS HRLVSLVGHCDEN SEMILVYEFMSN GPFDRDHLYKKNLap LIVWAGRISSAIDGNGHOFLHAGMPGIFGNLKLNNILLDDN -FVAKADMFGLSKDG
83510478.Q NNFSOIIKGCGFCVVYVYKVR DGTQKVAVKRNPQS NGTPAVAVKRNPQS HRLVSLVGHCDEN SEMILVYEFMSN GPFDRDHLYKKNLap LIVWAGRISSAIDGNGHOFLHAGMPGIFGNLKLNNILLDDN -FVAKADMFGLSKDG
83571573.Q NNFSOIIKGCGFCVVYVYKVR DGTQKVAVKRNPQS NGTPAVAVKRNPQS HRLVSLVGHCDEN SEMILVYEFMSN GPFDRDHLYKKNLap LIVWAGRISSAIDGNGHOFLHAGMPGIFGNLKLNNILLDDN -FVAKADMFGLSKDG
67820003.Q YPFOLQTTTISLQOPPH IKGKTMKTT DGTQKVAVKRNPQS NGTPAVAVKRNPQS HRLVSLVGHCDEN SEMILVYEFMSN GPFDRDHLYKKNLap LIVWAGRISSAIDGNGHOFLHAGMPGIFGNLKLNNILLDDN -FVAKADMFGLSKDG
AK105685.Q NNFSVFLGCGFCVVYVYKVR DGTQKVAVKRNPQS NGTPAVAVKRNPQS HRLVSLVGHCDEN SEMILVYEFMSN GPFDRDHLYKKNLap LIVWAGRISSAIDGNGHOFLHAGMPGIFGNLKLNNILLDDN -FVAKADMFGLSKDG
83571592.Q NNFSVFLGCGFCVVYVYKVR DGTQKVAVKRNPQS NGTPAVAVKRNPQS HRLVSLVGHCDEN SEMILVYEFMSN GPFDRDHLYKKNLap LIVWAGRISSAIDGNGHOFLHAGMPGIFGNLKLNNILLDDN -FVAKADMFGLSKDG
83571605.Q DNFOLIIGEGGFCEVYVYKVR DGTQKVAVKRNPQS NGTPAVAVKRNPQS HRLVSLVGHCDEN SEMILVYEFMSN GPFDRDHLYKKNLap LIVWAGRISSAIDGNGHOFLHAGMPGIFGNLKLNNILLDDN -FVAKADMFGLSKDG
AK100557.Q NDFORLQIQCFCVVYVYKVR DGTQKVAVKRNPQS NGTPAVAVKRNPQS HRLVSLVGHCDEN SEMILVYEFMSN GPFDRDHLYKKNLap LIVWAGRISSAIDGNGHOFLHAGMPGIFGNLKLNNILLDDN -FVAKADMFGLSKDG
83571557.Q INFEKFLQIQCFCVVYVYKVR DGTQKVAVKRNPQS NGTPAVAVKRNPQS HRLVSLVGHCDEN SEMILVYEFMSN GPFDRDHLYKKNLap LIVWAGRISSAIDGNGHOFLHAGMPGIFGNLKLNNILLDDN -FVAKADMFGLSKDG
83571516.Q NNFSRFLGCGFCVVYVYKVR DGTQKVAVKRNPQS NGTPAVAVKRNPQS HRLVSLVGHCDEN SEMILVYEFMSN GPFDRDHLYKKNLap LIVWAGRISSAIDGNGHOFLHAGMPGIFGNLKLNNILLDDN -FVAKADMFGLSKDG
83571509.Q NNFSRFLGCGFCVVYVYKVR DGTQKVAVKRNPQS NGTPAVAVKRNPQS HRLVSLVGHCDEN SEMILVYEFMSN GPFDRDHLYKKNLap LIVWAGRISSAIDGNGHOFLHAGMPGIFGNLKLNNILLDDN -FVAKADMFGLSKDG
83571520.Q NNFSRFLGCGFCVVYVYKVR DGTQKVAVKRNPQS NGTPAVAVKRNPQS HRLVSLVGHCDEN SEMILVYEFMSN GPFDRDHLYKKNLap LIVWAGRISSAIDGNGHOFLHAGMPGIFGNLKLNNILLDDN -FVAKADMFGLSKDG
83571547.Q DNFKRLIGHGGFCVVYVYKVR DGTQKVAVKRNPQS NGTPAVAVKRNPQS HRLVSLVGHCDEN SEMILVYEFMSN GPFDRDHLYKKNLap LIVWAGRISSAIDGNGHOFLHAGMPGIFGNLKLNNILLDDN -FVAKADMFGLSKDG
83571535.Q DSFKRLIGHGGFCVVYVYKVR DGTQKVAVKRNPQS NGTPAVAVKRNPQS HRLVSLVGHCDEN SEMILVYEFMSN GPFDRDHLYKKNLap LIVWAGRISSAIDGNGHOFLHAGMPGIFGNLKLNNILLDDN -FVAKADMFGLSKDG
83571523.Q ENFKRLIGHGGFCVVYVYKVR DGTQKVAVKRNPQS NGTPAVAVKRNPQS HRLVSLVGHCDEN SEMILVYEFMSN GPFDRDHLYKKNLap LIVWAGRISSAIDGNGHOFLHAGMPGIFGNLKLNNILLDDN -FVAKADMFGLSKDG
83571521.Q ENFKRLIGHGGFCVVYVYKVR DGTQKVAVKRNPQS NGTPAVAVKRNPQS HRLVSLVGHCDEN SEMILVYEFMSN GPFDRDHLYKKNLap LIVWAGRISSAIDGNGHOFLHAGMPGIFGNLKLNNILLDDN -FVAKADMFGLSKDG
83571544.Q ENFKRLIGHGGFCVVYVYKVR DGTQKVAVKRNPQS NGTPAVAVKRNPQS HRLVSLVGHCDEN SEMILVYEFMSN GPFDRDHLYKKNLap LIVWAGRISSAIDGNGHOFLHAGMPGIFGNLKLNNILLDDN -FVAKADMFGLSKDG
83570660.Q EGTQAVKLRQSGVYVYKVR DGTQKVAVKRNPQS NGCQLKEFLIAQILTRH HRLVSLVGHCDEN SEMILVYEFMSN GPFDRDHLYKKNLap LIVWAGRISSAIDGNGHOFLHAGMPGIFGNLKLNNILLDDN -FVAKADMFGLSKDG

AK073571..q NNFQFVLGRGGFCVYDGFPE DGTQAVAKVLRLSESS NQAKEEFLAEQAQLTRIH HKNLVSMIYCCKDG EYMAALVYEVYMS EGTWLRRLIALEASQGLEYLHKACCPPILHHDVKATNILLNTR LEAKIADFGCLSKKF
3740006..q NNFQFVLGRGGFCVYDGFPE DGTQAVAKVLRLSESS NOODKEPLVEAQLTRIH HKSRDLSMIVYCCKDG KYMALVYEVYMS EGTWLRRLIALEASQGLEYLHKCWPPLIHHDVKATNILLNAK LEAKIADFGCLSKKF
3740005..q NNFQFVLGRGGFCVYDGFPE DGTQAVAKVLRLSESS NOODKEPLVEAQLTRIH HKNLVSMIYCCKDG KYMALVYEVYMS EGTWLRRLIALEASQGLEYLHKCWPPLIHHDVKATNILLNAK LEAKIADFGCLSKKF
83534004..q NKFQFVLQGGFCVYDGFPE DGTQAVAKVRLTRESS NOODKEPLVEAQLTRIH HKNLVSMIYCCKDE KYMALVYEVYMS EGTWLRRLIALEASQGLEYLHKCWPPLIHHDVKATNILLNAK LEAKIADFGCLSKKF
83500238..q NKFQFVLQGGFCVYDGFPE DGTQAVAKVLRLSESS SOCAKEEFLAEQAQLTRIH HKNLVSMIYCCKDG IYMLALVYEVYMS EGTWLRRLIALEASQGLEYLHKCWPPLIHHDVKATNILLNTR LEAKIADFGCLSKKF
3740008..q NNFQFVLGKGFCVYDGFPE DGTQAVAKVLRLDESS SOCYSEPLFELAQALTRIH HKNLVSMIYCCKDG IYMLALVYEVYMS EGTWLRRLIALEASQGLEYLHKCWPPLIHHDVKATNILLNTR LEAKIADFGCLSKKF
15233575..p NNFQFVLGKGFCVYDGFPE DGTQAVAKVLRLSESS NOODKEPLVEAQLTRIH HKNLVSMIYCCKDE KYMALVYEVYMS EGTWLRRLIALEASQGLEYLHKCWPPLIHHDVKATNILLNTR LEAKIADFGCLSKKF
15233490..q NNFQFVLGKGFCVYDGFPE DGTQAVAKVLRLSESS NOODKEPLVEAQLTRIH HKNLVSMIYCCKDE KYMALVYEVYMS EGTWLRRLIALEASQGLEYLHKCWPPLIHHDVKATNILLNTR LEAKIADFGCLSKKF
15221237..q NNFQFVLGKGFCVYDGFPE DNLOVAQAKVLRLSETS ACCAKEEFLAESEVELLVRHV HNVNLNTALIYEHG DQMLALIYEYMAN GSMLADHAKYQht NFKRNLADFGCLSKRFH
15224743..p NNFQFVLQGGFCVYDGFPE RGBQAVAKVLRLSKSS AOCYKEEFLAEFVELLVRHV HKNLVSLIYCCKDG DQMLALIYEYMAN GTLGCDYLSCKNSsi LSWEERLQISLDAQGLEYLNGCPPVHLDVKTNILLNEK LEAKIADFGCLSKRFST
15224738..q NNFQFVLQGGFCVYDGFPE NDDQAVAKVLRLSESS AOCYKEEFLAEFVELLVRHV HKNLVSLIYCCKDG KHMALIYEYMAN GTHGCDYLSCKSYV LSWEERLQISLDAQGLEYLNGCPPVHLDVKTNILLNEK LEAKIADFGCLSKRFV
15223796..q NNFQFVLGKGFCVYDGFPE NDDQAVAKVLRLSESS NOODKEPLVEAQLTRIH HKNLVSLIYCCKDG TTYCERLIVAEASQGLEYLHKCWPPLIHHDVKTSNILLNTR LEAKIADFGCLSKRFP
15224735..p NNFQFVLGKGFCVYDGFPE NDDQAVAKVLRLSESS NOODKEPLVEAQLTRIH HKNLVSLIYCCKDG TTYCERLIVAEASQGLEYLHKCWPPLIHHDVKTSNILLNTR LEAKIADFGCLSKRFP
15231428..p NNFQFVLQGGFCVYDGFPE GSEQAVAKVLRLSQSS AOCYKEEFLAEFVELLVRHV HNLVSLIYCCKDG KHMALIYEYMAN GNLQDYLSSSENEd FTAKMDPGLSRSQF
15231424..q KKFPLKEGGFCVYDGFPE NNFQFVLQGGFCVYDGFPE GSEQAVAKVLRLSQSS VQCKEAEVLLRVRHV HNLVSLIYCCKDG KHMALIYEYMAN GNLQDYLSSSENEd FTAKMDPGLSRSQF
15231420..p KKFPLKEGGFCVYDGFPE SNFQFVLQGGFCVYDGFPE GSEQAVAKVLRLSQSS VQCKEAEVLLRVRHV HNLVSLIYCCKDG DHLALIYEYMAN GNLQDYLSSSENEd FMAKIADFGCLSKRFK
15231426..p KKFPLKEGGFCVYDGFPE SNFQFVLQGGFCVYDGFPE GSEQAVAKVLRLSQSS VQCKEAEVLLRVRHV HNLVSLIYCCKDG DHLALIYEYMAN GNLQDYLSSSENEd FMAKIADFGCLSKRFK
15231406..p NNFQFVLQGGFCVYDGFPE SSQAVAKVLRLSQSS TTYCERLIVAEASQGLEYLHKCWPPLIHHDVKTSNILLNEK DHLALIYEYMAN GNLQDYLSSSENEd FMAKIADFGCLSKRFI
15231403..p KNLQRPLQGGFCVYDGFPE SSQAVAKVLRLSQSS TTYCERLIVAEASQGLEYLHKCWPPLIHHDVKTSNILLNEK DHLALIYEYMAN GNLQDYLSSSENEd FTAKMDPGLSRSQF
15231400..p KNLQRPLQGGFCVYDGFPE SSQAVAKVLRLSQSS TTYCERLIVAEASQGLEYLHKCWPPLIHHDVKTSNILLNEK DHLALIYEYMAN GNLQDYLSSSENEd FTAKMDPGLSRSQF
15238493..p NNFQFVYQGGFCVYDGFPE GSEQAVAKVLRLSQSS TTYCERLIVAEASQGLEYLHKCWPPLIHHDVKTSNILLNEK DHLALIYEYFVN FQAKLADFGCLSKRFQ
22327979..q KNFQFVLGKGFCVYDGFPE GSEQAVAKVLRLSQSS TTYCERLIVAEASQGLEYLHKCWPPLIHHDVKTSNILLNEK DHLALIYEYFVN FQAKLADFGCLSKRFQ
15238490..p NNFQFVLGKGFCVYDGFPE GSDPQAVAKVLRLSQSS TTYCERLIVAEASQGLEYLHKCWPPLIHHDVKTSNILLNEK DHLALIYEYFVN FQAKLADFGCLSKRFQ
15238489..p NNFQFVYQGGFCVYDGFPE GSEQAVAKVLRLSQSS TTYCERLIVAEASQGLEYLHKCWPPLIHHDVKTSNILLNEK DHLALIYEYFVN FQAKLADFGCLSKRFQ
15227017..p NNFQFVLQGGFCVYDGFPE VIEQAVAKVLRLSQSS TTYCERLIVAEASQGLEYLHKCWPPLIHHDVKTSNILLNEK DHLALIYEYFVN FQAKLADFGCLSKRFQ
15227015..p NNFQFVLQGGFCVYDGFPE GTQAVAKVLRLSQSS TTYCERLIVAEASQGLEYLHKCWPPLIHHDVKTSNILLNEK DHLALIYEYFVN FQAKLADFGCLSKRFQ
15227018..p NKFQFVLQGGFCVYDGFPE DTEQAVAKVLRLSHSS TTYCERLIVAEASQGLEYLHKCWPPLIHHDVKTSNILLNEK DHLALIYEYFVN FQAKLADFGCLSKRFQ
15227007..p DNFQFVLQGGFCVYDGFPE GTQAVAKVLRLSQSS TTYCERLIVAEASQGLEYLHKCWPPLIHHDVKTSNILLNEK DHLALIYEYFVN FQAKLADFGCLSKRFQ
15220696..p NNFFKIIQEGGFCHYDGFPE DSEQAVAKVLRLSESS TTYCERLIVAEASQGLEYLHKCWPPLIHHDVKTSNILLNEK DHLALIYEYFVN FQAKLADFGCLSKRFQ
15237096..p NNFFPRLQEGGFCHYDGFPE DNEQAVAKVLRLSESS TTYCERLIVAEASQGLEYLHKCWPPLIHHDVKTSNILLNEK DHLALIYEYFVN FQAKLADFGCLSKRFQ
15224435..p NNFOVVIQEGGFCHYDGFPE NNEQAVAKVLRLSHSS TTYCERLIVAEASQGLEYLHKCWPPLIHHDVKTSNILLNEK DHLALIYEYFVN FQAKLADFGCLSKRFQ
15225949..p NNFOVVLGKGFCVYDGFPE NNEQAVAKVLRLSQSS TTYCERLIVAEASQGLEYLHKCWPPLIHHDVKTSNILLNEK DHLALIYEYFVN FQAKLADFGCLSKRFQ
15225938..p NNFOVVLGKGFCVYDGFPE NNEQAVAKVLRLSQSS TTYCERLIVAEASQGLEYLHKCWPPLIHHDVKTSNILLNEK DHLALIYEYFVN FQAKLADFGCLSKRFQ
15222436..p KKFPLKEGGFCVYDGFPE NNEQAVAKVLRLSQSS TTYCERLIVAEASQGLEYLHKCWPPLIHHDVKTSNILLNEK DHLALIYEYFVN FQAKLADFGCLSKRFQ
15237871..p NNFQFVLQGGFCVYDGFPE DSEQAVAKVLRLSPSS TTYCERLIVAEASQGLEYLHKCWPPLIHHDVKTSNILLNEK DHLALIYEYFVN FQAKLADFGCLSKRFQ
15228118..p NNFQFVLQGGFCVYDGFPE DAEEQAVAKVLRLSPSS TTYCERLIVAEASQGLEYLHKCWPPLIHHDVKTSNILLNEK DHLALIYEYFVN FQAKLADFGCLSKRFQ
15217993..p NKFQFVLQGGFCVYDGFPE NNEQAVAKVLRLSHSS TTYCERLIVAEASQGLEYLHKCWPPLIHHDVKTSNILLNEK DHLALIYEYFVN FQAKLADFGCLSKRFQ
15232537..p NNFQFVLQGGFCVYDGFPE NTEQAVAKVLRLSHSS TTYCERLIVAEASQGLEYLHKCWPPLIHHDVKTSNILLNEK DHLALIYEYFVN FQAKLADFGCLSKRFQ
15218046..p NNFQFVLQGGFCVYDGFPE GTEQAVAKVLRLSHSS TTYCERLIVAEASQGLEYLHKCWPPLIHHDVKTSNILLNEK DHLALIYEYFVN FQAKLADFGCLSKRFQ
15218050..p NNFQFVLQGGFCVYDGFPE GTEQAVAKVLRLSHSS TTYCERLIVAEASQGLEYLHKCWPPLIHHDVKTSNILLNEK DHLALIYEYFVN FQAKLADFGCLSKRFQ
15218047..p NNFQFVLQGGFCVYDGFPE GTEQAVAKVLRLSHSS TTYCERLIVAEASQGLEYLHKCWPPLIHHDVKTSNILLNEK DHLALIYEYFVN FQAKLADFGCLSKRFQ
22330177..p NNFQFVLQGGFCVYDGFPE GTEQAVAKVLRLSHSS TTYCERLIVAEASQGLEYLHKCWPPLIHHDVKTSNILLNEK DHLALIYEYFVN FQAKLADFGCLSKRFQ
15218048..p NNFQFVLQGGFCVYDGFPE GTEQAVAKVLRLSHSS TTYCERLIVAEASQGLEYLHKCWPPLIHHDVKTSNILLNEK DHLALIYEYFVN FQAKLADFGCLSKRFQ
15222042..p NNFQFVLQGGFCVYDGFPE GREQAVAKVLRLSHAS TTYCERLIVAEASQGLEYLHKCWPPLIHHDVKTSNILLNEK DHLALIYEYFVN FQAKLADFGCLSKRFQ
15218075..p NNFQFVLQGGFCVYDGFPE DDTQAVAKVLRLFHSS TTYCERLIVAEASQGLEYLHKCWPPLIHHDVKTSNILLNEK DHLALIYEYFVN FQAKLADFGCLSKRFQ
15218056..p NNFQFVLQGGFCVYDGFPE DDTQAVAKVLRLSHSS TTYCERLIVAEASQGLEYLHKCWPPLIHHDVKTSNILLNEK DHLALIYEYFVN FQAKLADFGCLSKRFQ
15218059..p NNFQFVLQGGFCVYDGFPE DDTQAVAKVLRLSHSS TTYCERLIVAEASQGLEYLHKCWPPLIHHDVKTSNILLNEK DHLALIYEYFVN FQAKLADFGCLSKRFQ
15218054..p NNFQFVLQGGFCVYDGFPE DPAEQAVAKVLRLSHSS TTYCERLIVAEASQGLEYLHKCWPPLIHHDVKTSNILLNEK DHLALIYEYFVN FQAKLADFGCLSKRFQ
15218052..p NNFQFVLQGGFCVYDGFPE DSEAVAKVLRLSHSS TTYCERLIVAEASQGLEYLHKCWPPLIHHDVKTSNILLNEK DHLALIYEYFVN FQAKLADFGCLSKRFQ
15218033..p NNFQFVLQGGFCVYDGFPE NNEQAVAKVLRLSHSS TTYCERLIVAEASQGLEYLHKCWPPLIHHDVKTSNILLNEK DHLALIYEYFVN FQAKLADFGCLSKRFQ
15221649..p FSPDNLLQGGFCVYDGFPE NTCEQAVAKVLRLTEST TTYCERLIVAEASQGLEYLHKCWPPLIHHDVKTSNILLNEK DHLALIYEYFVN FQAKLADFGCLSKRFQ
43250011..q FSEARKIGEGGYCVYDGFPE IDKIDTFLRVSDILSQLQ TTYCERLIVAEASQGLEYLHKCWPPLIHHDVKTSNILLNEK DHLALIYEYFVN FQAKLADFGCLSKRFQ
37600021..q FSDAKKIGEGGYCVYDGFPE HTEVAQAKVLRLQODS TTYCERLIVAEASQGLEYLHKCWPPLIHHDVKTSNILLNEK DHLALIYEYFVN FQAKLADFGCLSKRFQ
15224775..p FSPDKVIGEGGYCVYDGFPE STPAVAKVLRLWRDT TTYCERLIVAEASQGLEYLHKCWPPLIHHDVKTSNILLNEK DHLALIYEYFVN FQAKLADFGCLSKRFQ
22327904..p FSSRIKIGEGGYCVYDGFPE HTPVALVAKVLRLKPD SVEKEEFLPKLIIISVLSOLR TTYCERLIVAEASQGLEYLHKCWPPLIHHDVKTSNILLNEK DHLALIYEYFVN FQAKLADFGCLSKRFQ
15220138..p FSDALKIGEGGYCVYDGFPE NTSVAQAKVLRLKSDV TTYCERLIVAEASQGLEYLHKCWPPLIHHDVKTSNILLNEK DHLALIYEYFVN FQAKLADFGCLSKRFQ
15218594..p FSDALKIGEGGYCVYDGFPE YTSVAQAKVLRLKSGI TTYCERLIVAEASQGLEYLHKCWPPLIHHDVKTSNILLNEK DHLALIYEYFVN FQAKLADFGCLSKRFQ
AK069368..q FSPDKVIGEGGYCVYDGFPE NTIVLAQAKVLRLHSNI TTYCERLIVAEASQGLEYLHKCWPPLIHHDVKTSNILLNEK DHLALIYEYFVN FQAKLADFGCLSKRFQ
15239834..p PANFRKIGEGGYCVYDGFPE HTPVALVAKVLRLRPDA TTYCERLIVAEASQGLEYLHKCWPPLIHHDVKTSNILLNEK DHLALIYEYFVN FQAKLADFGCLSKRFQ
15239600..p PANFRKIGEGGYCVYDGFPE HTPVALVAKVLRLRPDA TTYCERLIVAEASQGLEYLHKCWPPLIHHDVKTSNILLNEK DHLALIYEYFVN FQAKLADFGCLSKRFQ
AK101023..q FSDALKIGEGGYCVYDGFPE HTPVALVAKVLRLRPDA TTYCERLIVAEASQGLEYLHKCWPPLIHHDVKTSNILLNEK DHLALIYEYFVN FQAKLADFGCLSKRFQ
AK068947..q FSDALKIGEGGYCVYDGFPE HTPVALVAKVLRLRPDA TTYCERLIVAEASQGLEYLHKCWPPLIHHDVKTSNILLNEK DHLALIYEYFVN FQAKLADFGCLSKRFQ
15224129..p FAEKYKIGEGGYCVYDGFPE HTPVALVAKVLRLRPDA TTYCERLIVAEASQGLEYLHKCWPPLIHHDVKTSNILLNEK DHLALIYEYFVN FQAKLADFGCLSKRFQ
3769007..q FNDARKIGEGGYCVYDGFPE HTAVAVKVLRLRPDA TTYCERLIVAEASQGLEYLHKCWPPLIHHDVKTSNILLNEK DHLALIYEYFVN FQAKLADFGCLSKRFQ
AK069654..q FADGRKIGEGGYCVYDGFPE HTPVALVAKVLRLRPDA TTYCERLIVAEASQGLEYLHKCWPPLIHHDVKTSNILLNEK DHLALIYEYFVN FQAKLADFGCLSKRFQ
30685668..p FDKANKIGEGGYCVYDGFPE HTPVALVAKVLRLKADA TTYCERLIVAEASQGLEYLHKCWPPLIHHDVKTSNILLNEK DHLALIYEYFVN FQAKLADFGCLSKRFQ
30699374..p FSEALKIGEGGYCVYDGFPE HTPVALVAKVLRLKADA TTYCERLIVAEASQGLEYLHKCWPPLIHHDVKTSNILLNEK DHLALIYEYFVN FQAKLADFGCLSKRFQ
15219360..p FABSKVIGEGGYCVYDGFPE HTSVAQAKVLRLPDR TTYCERLIVAEASQGLEYLHKCWPPLIHHDVKTSNILLNEK DHLALIYEYFVN FQAKLADFGCLSKRFQ
15225643..p FSDMKHKGEGGYCVYDGFPE YTPVAQAVKVLRLPDA TTYCERLIVAEASQGLEYLHKCWPPLIHHDVKTSNILLNEK DHLALIYEYFVN FQAKLADFGCLSKRFQ
15238484..p FSPDKVIGEGGYCVYDGFPE YTPVAQAVKVLRLPDA TTYCERLIVAEASQGLEYLHKCWPPLIHHDVKTSNILLNEK DHLALIYEYFVN FQAKLADFGCLSKRFQ
15238488..p YSDRIRLAKSGCGNIVYRGRIT KHTTVAQAVKVLRLGDSL TTYCERLIVAEASQGLEYLHKCWPPLIHHDVKTSNILLNEK DHLALIYEYFVN FQAKLADFGCLSKRFQ
30697549..p FSPDLKIGEGGYCVYDGFPE HTPVALVAKVLRLHSKD SSLIKOFHOELEILSKIR TTYCERLIVAEASQGLEYLHKCWPPLIHHDVKTSNILLNEK DHLALIYEYFVN FQAKLADFGCLSKRFQ
15241414..p FSEDLKIGEGGYCVYDGFPE HTPVALVAKVLRLHSKD SSLIKOFHOELEILSKIR TTYCERLIVAEASQGLEYLHKCWPPLIHHDVKTSNILLNEK DHLALIYEYFVN FQAKLADFGCLSKRFQ
15234952..p FSEDLKIGEGGYCVYDGFPE HTTAVAKVLRLQSAE NOLSKOFQOELEILSKIR TTYCERLIVAEASQGLEYLHKCWPPLIHHDVKTSNILLNEK DHLALIYEYFVN FQAKLADFGCLSKRFQ
15240280..p FAPENKICLGGFCVYDGFPE HTTAVAKVLRLHAGE TTYCERLIVAEASQGLEYLHKCWPPLIHHDVKTSNILLNEK DHLALIYEYFVN FQAKLADFGCLSKRFQ
AK099675..q FSEALKIGEGGYCVYDGFPE QTSVAQAKVLRLTSDD SHRIKIFPKOEELEVLGKIR TTYCERLIVAEASQGLEYLHKCWPPLIHHDVKTSNILLNEK DHLALIYEYFVN FQAKLADFGCLSKRFQ
33520007..q FADNKKIGEGGYCVYDGFPE HSAVAQAKVLRLHSDD NSSKOFQOELEVLGKIR TTYCERLIVAEASQGLEYLHKCWPPLIHHDVKTSNILLNEK DHLALIYEYFVN FQAKLADFGCLSKRFQ
AK065683..q ISEDLMRKGPSYCVYDGFPE HTVAVAVKVLRLNSEP GCQLOQLOEFLVYKAKH TTYCERLIVAEASQGLEYLHKCWPPLIHHDVKTSNILLNEK DHLALIYEYFVN FQAKLADFGCLSKRFQ
24500004..q FSPVRIGGCCPSVYDGFPE SMAVAVKVLRLGDRV ADDEVCPCEVLPVCFP HTPVALVAKVLRLPDR TTYCERLIVAEASQGLEYLHKCWPPLIHHDVKTSNILLNEK DHLALIYEYFVN FQAKLADFGCLSKRFQ
56530022..q EDBSRMIGGGFCVYDGFPE HTTVAQAVKVLRLNREG ITCEKEEFLDEVEILCPRMR TTYCERLIVAEASQGLEYLHKCWPPLIHHDVKTSNILLNEK DHLALIYEYFVN FQAKLADFGCLSKRFQ
3218001..q KDNICLGGFCVYDGFPE NETVAMKUNLESS ROGEREKEEFLDEVEILCPRMR TTYCERLIVAEASQGLEYLHKCWPPLIHHDVKTSNILLNEK DHLALIYEYFVN FQAKLADFGCLSKRFQ
44640010..q EDTALKIGEGGYCVYDGFPE NTIAITVMLPHOG LOGOCELEHHEOEVVVLSLRPL HTPVALVAKVLRLNREG TTYCERLIVAEASQGLEYLHKCWPPLIHHDVKTSNILLNEK DHLALIYEYFVN FQAKLADFGCLSKRFQ
AK109040..q FSDAMKIGEGGYCVYDGFPE NTTVAQAVKVLRLPHS MOCQSEFDDEIIVAVLVSLSRPL HTPVALVAKVLRLNREG TTYCERLIVAEASQGLEYLHKCWPPLIHHDVKTSNILLNEK DHLALIYEYFVN FQAKLADFGCLSKRFQ
AK065488..q FSDAMKIGEGGYCVYDGFPE NTTVAQAVKVLRLRSQN LOGOSQFQOEAVAVLVSLSRPL HTPVALVAKVLRLNREG TTYCERLIVAEASQGLEYLHKCWPPLIHHDVKTSNILLNEK DHLALIYEYFVN FQAKLADFGCLSKRFQ
67270013..q FTDACKVIGEGGYCVYDGFPE GTEVAQAKVLRLSTS CTKSIALVKEWLNG RNEHLDVLCVHANNSTP LWEONRTIIECICCAJLFLVLSNTAIIHLRDPN HTPVALVAKVLRLNREG TTYCERLIVAEASQGLEYLHKCWPPLIHHDVKTSNILLNEK DHLALIYEYFVN FQAKLADFGCLSKRFQ

AK069682.q EKNAREYCDHEYCHTYKGMLH-NMVKVILKLSSSQK- DFGQEVSLRQWR- HPNIIIFIGVC- SEVSAALVYE LPN- GNLEDRIIICTNNSAP- LSWYNRTTIIICEICCAIPLFLHSN- STALVHCDLRPCNILLIDAN- YRSKICNFGMSNQL-
 AK069675.q PSNALKIKOEGGFSCVYKGHR- NMTVAIKVLRPDS- LOGOSFECEDVLLPSRVR- HPHLVLVLLCAG- SESSTLVVEILSPRN- GSLEDRLMCSRDERTQ- LIVSKLSDFGCISRLDI-
 AK073764.q PSNALNKOQGFGESVYKGSR- NTTVALKMLSTDS- LHCGSOFHQEVAILSPRN- HENLVLDLICAC- TEASALVYEILP- GSLEDRLCVDNTPP- LIVQIRIIRIAEICSA-
 AK102556.q PSDSLKVKIPRLPCLCVYKGEM- NRSVIMKLHSCI- IOSSMPOQEVBLILSKVR- HPHLVLVLLCAG- EDALCDLYEVPN- GSLEDRLWSKCIPQ- LQSKLSDFGCISRLL-
 3069013.p PSDSLKIKGEYCGFSCVYKGHR- HTQVAIKMLNEVS- SOCPEEVQEVDFVLSKMR- HPNIIIFIGVC- PEGCSLWVYELPG- GSLEDRLMCSRDERTQ- LQSKLSDFGCISRLL-
 18408768.p PSDFWKLGECYCGFSCVYKGHR- HLOQAVKMPSPSGS- 1NFPEERERVVEILSPRN- HPLNLVLLMPCAC- PESEPLIYQVYLP- GSLEDRCFSENNVPA- LIVKINDYGISQJ-
 AK061135.q FCSGNLIGBEGGYCSCVYKGHR- SVAVAIAKDRPHG- RCEPFETKAEVVLVSLRME- HPHLVLVLLCAG- PESCGLVYEHIPN- LIVKQIRIIRIAEICSA-
 30683822.p FSENSSVHGGFSCVYKGHR- DGKTAIAKRLNTK- CDDIDTFSNEVLLVSLRME- HPHLVLVLLCAG- PESCGLVYEHIPN- LIVKQIRIIRIAEICSA-
 AK099755.q FSDGHLIGVIGTSEKVYRGDS- DAKWIAVKKLRLPLG- GADAEVFEELSEVLLSLRN- HCHVVLVLLCAG- GNLDRDLDLKQCRKA- NSSRLGDFGARAVH-
 30686316.p FNLSPKIQOGGFCAYVYAEI- GEKAIAKKMD- MEASKOPLAELKVLTRVH- HNVNVLRLICVYCV- GSLSFLVYEVBN- GNLDRDLDLKQCRKA- VKPL-
 83564161.q FSIGNKIQQCGFAVYVABR- GEKAIAKKMD- MOATHEFLAELKVLTRVH- HNLVLLVLLCAG- SSELFLVYEVBN- GNLDRDLDLKQCRKA- SD-
 83503313.q FDEKRKIGECCGGSVYLGFG- THEIAVAKKMKASK- SKEEFAELVLLCAG- HNLVLLVLLCAG- GNLDRDLDLKQCRKA- LQSKLSDFGCISRLL-
 AK073720.q PSDANLIGHCTYGSVYVGVR- DQEVIAKVRMATAK- TKEFIVEVMKVLCKVH- HASLVEELVYAA- KDELLYLIYEFQK- LIVKQIRIIRIAEICSA-
 15218078.p FSNDLNLGHCNYSVYVGVR- EOEAVAKVRMATAK- TKEFIVEVMKVLCKVH- HNSIVLVLVLLCAG- VDLEFLVYEVBN- LIVKQIRIIRIAEICSA-
 83514331.q FDEEHLIGVIGTSEKVYRGDS- GEFVAVKMKVDA- CEBELKVLCKVH- HNLVLLVLLCAG- GNLDRDLDLKQCRKA- MRAKIANFGLAKTG-
 44940012.q LDECKLIGS-SYVFRANE- REVFAVAKPKGNV- AGELRMMOMVN- HANLTKLAKTSIACDIDYALVVEFAEK- GSISDLMWLDLMDRARR-
 15224061.p FTSQSSS-SGK-MECKN- DCAGATKKIEGNA- SPTFVNLLSKLN- HNLVLLVLLCAG- EGDWVLYVH- SN- LIVKQIRIIRIAEICSA-
 15232204.p FSSENHNIGKGSVYRATIN- QKDLAIKQVNADE- MKRDFGGLNQDS- DENVIRVLCHCFRE1QDSYLVFETARN- GNLDRDLDLKQCRKA-
 15226135.p FSDENRIGKGSVYRATIN- GDDAVKVKLGKD- SSSEINLHSSGKKS- HCSLIRLHSSGKKS- EGTSVLFYEVSEN- LIVKQIRIIRIAEICSA-
 29420004.q FSEPRRVYVG-TAVVYGVEN- CDAAVAKVLRSGDV- SCGEVGLKRVN- HCSLIRLHSSGKKS- RGDTYLVFETARN- LIVKQIRIIRIAEICSA-
 36380005.q FABERRVYAA-GSSVTRAVIN- GEAFAVKVRVAAGG- DTVREGVDFVLRGVN- HCSLIRLHSSGKKS- CDDIVLVLEFAEN- LIVKQIRIIRIAEICSA-
 AKL11267.q FSI-SRVIGQCGFSTVYLAIST- SSRIGAVKVRGSSE- RLRAFRCOERDVLLSLR- HPHVVRLLCYCDB- RDEGVLFVETARN- LIVKQIRIIRIAEICSA-
 AK063397.q FSI-SRVIGQCGFSTVYLAIST- SSRIGAVKVRGSSE- RLRAFRCOERDVLLSLR- HPHVVRLLCYCDB- RDEGVLFVETARN- LIVKQIRIIRIAEICSA-
 30692836.p SNEBSRLIGTCGGYSSIIYARNS- GSINAKVHVSS- HRLYQFVRFSELELLRLQ- HPHVVLKLLGFD- SESCALLDEYIPLQ- GNLDRDLDLKQCRKA-
 15235071.p SNEBSRLIGTCGGYSSIIYARNS- GSDKAALKVHVS- HPLNLLVLLCAG- SPNGCALDEYIPLQ- GNLDRDLDLKQCRKA-
 AK099892.q FDEAAVVGRCGSSIVYLGASS- RVAVVSPPVAVKVRWCG- GERNRIRAEELDLLRRLR- HPHVVLKLLGFD- SPNGCALDEYIPLQ- LIVKQIRIIRIAEICSA-
 9030002.q PT-SAVVOCGGFSTVYLAIST- CALAVAKVLRSSSE- RLRAFRCOERDVLLSLR- HPHVVRLLCYCDB- QEECVLVLFFAN- GNLDRDLDLKQCRKA-
 AK071309.q PT-SAVVOCGGFSTVYLAIST- CALAVAKVLRSSSE- RLRAFRCOERDVLLSLR- HPHVVRLLCYCDB- RDEGVLFVETARN- GNLDRDLDLKQCRKA-
 49310002.q FSEPRKLIGKGGFSCVYKGHR- NDKIAVAKLQHTEG- FDDMKENNEFGNLMAN- HNTNIRLVCYCBEATIDRLCEYMPR- GSISLNLSDEDDG- SAAV-
 49310004.q FSEPRKLIGKGGFSCVYKGHR- NDKIAVAKLQHEDIQ- DFDDKEDONEFGNLMVN- HNPVIVOLVYCYCBEATIDRLCEYMPR- GSISLNLSDKVDG-
 34867776.m SIGGNRMEEGGFCVYVKGHR- NTTVAVKVLHSGNds- isTEELKQQDFDEIKVMAQC- HENLVLLCAG- GNLDRDLDLKQCRKA-
 23943898.m SIGGNRMEEGGFCVYVKGHR- NTTVAVKVLHSGNds- isTEELKQQDFDEIKVMAQC- HENLVLLCAG- GNLDRDLDLKQCRKA-
 IRAK4.h SVGGNRMEEGGFCVYVKGHR- NTTVAVKVLHSGNds- itTEELKQQDFDEIKVMAQC- HENLVLLCAG- GNLDRDLDLKQCRKA-
 31207565.i APNGRS-LAGGFCAVPFLANL- APSIPVAVKVLDPDK- YKFREKEHHLDSLKHS- HNTVVLILSLLSSD- RGPQLCLVVEYLKD- GNLDRDLDLKQCRKA-
 31205959.i SERNLIGKGGFCVYVKGHR- HTFMALKKIDYNYKVKs- seaERICLQOSFNELRNLNCR- HDNIVLLECYCIE- KETCLVYQFMG- GNLDRDLDLKQCRKA-
 17136894.f SPDPNRLGQGGFSCVYVKGHR- QLDVAIKVMMNRS- idqKMVELQOSYNEBLKLNLIR- HDNIVLADYCVSIK- CGKCLVYQDMKG- GNLDRDLDLKQCRKA-
 25145082.w PAVENVIGKCGGYSCVYVKGHR- GTGGIVAVKVLHSGNds- qngsSERDRDROSILNLR- LAFR- HDNIVLILYAMSLB- GSEPCLVYQFMG- GNLDRDLDLKQCRKA-
 34865724.m EHKDFLIGE-EIIFEVYVVR- R- NQTYAVKLFQEK- TMQLKKHW- FLEBEVLVLLF- RFNPHPHLBAAMFT- MEKLCLVYQFMG- GNLDRDLDLKQCRKA-
 31543005.m EHKDFLIGE-EIIFEVYVVR- R- NQAYAVKLFQEK- KMQLKKHW- FLEBEVLVLLF- HPHILBAAMFT- TEKLCLVYQFMG- GNLDRDLDLKQCRKA-
 IRAK3.h EHKDFLIGE-EIIFEVYVVR- R- NLTYAVKLFQEK- mgCKKHW- FLEBEVLVLLF- HPHILBAAMFT- TEKFCLVYQFMG- GNLDRDLDLKQCRKA-
 34858329.m EDOGSHRISCGFPADLYGQRN- GVAPEAKRLREVtg- ssPGSMDFLQEMOICACC- HENILLLPL- RCFPL- RCFPLSLLYPMAN- GNLDRDLDLKQCRKA-
 31543003.m FDISHRISCGFPADLYGQRN- GVAPEAKRLREVtg- ssPGSMDFLQEMOICACC- HENILLLPL- RCFPL- RCFPLSLLYPMAN- GNLDRDLDLKQCRKA-
 IRAK2.h FNCRKHSQGPFADYVYGRH- CKPFWKKLRETACSS- pgsIERPQFQELQICRCC- HPHVVLVLLCAG- RCFPLSLLYPMAN- GNLDRDLDLKQCRKA-
 6680419.m FSEPRKLIGECCGFCVYVAVMR- NTTYAVKRLKEEAD- leWDMVKQ- FLEBEVELSPFR- HPHVVLVLLCAG- RCFPLSLLYPMAN- GNLDRDLDLKQCRKA-
 34881758.m FSEPRKLIGECCGFCVYVAVMR- NTTYAVKRLKEFdk- dleWTVVKQ- FLEBEVELSPFR- HPHVVLVLLCAG- RCFPLSLLYPMAN- GNLDRDLDLKQCRKA-
 IRAK1.h FSEPRKLIGECCGFCVYVAVMR- NTVYAVKRLKENAD- leWTAVKQ- FLEBEVELSPFR- HPHVVLVLLCAG- RCFPLSLLYPMAN- GNLDRDLDLKQCRKA-

	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350	360	370	380	390
15231637.p
15228043.p	SCE	SHIT	TRV	GTC	YV	TAPE	YAN	LLNEKSDIYSFGVVLLEIITG	RDPVDRYR PAN	EVNLVE LKMMV	TRRAEEVVD SRLPEPPPA TRAK RAILVALRCV D	EAKRKP	M5OIVRML ESDHE				
AK100061.q	SDS	SYIN	RV	GTC	YV	TAPE	YAN	LLNEKSDIYSFGVVLLEIITG	RDPVDRYR PAN	EVNLVE LKMMV	TRRAEEVVD SRLPEPPPA TRAK RAILVALRCV D	EAKRKP	M5OIVRML ESDHE				
AK065494.q	SDK	SHIT	TRV	GTC	YV	TAPE	YAN	LLNEKSDVYSGVVLLEIITG	RDPVDRYR PAN	EVNLVE LKMMV	SKRAEEVVD PNIE TIPPKR ATRAK RAILVALRCV D	DADKRP	M5HVVQML EANQN				
AK100303.q	-ACK	SHIT	TRV	GTC	YV	TAPE	YAN	LLNEKSDVYSGVVLLEIITG	RDPVDRYR PAN	EVNLVE LKMMV	TRRAEEVVD PDEV TIPTRAK RAILVALRCV D	DSSKRP	M5GVRMML EAEDEV				
AK073774.q	-ACK	SHIA	RV	GTC	YV	TAPE	YAN	LLNEKSDVYSGVVLLEIITG	RDPIDYD RPPD	EVNLVE LKMMV	NRRSEEEVDPNIE TIPTRAK RAILVALRCV D	NSDKRP	M5DOVVRML DSNEP				
AK100396.q	-ACK	SHIT	TRV	GTC	YV	TAPE	YAN	LLNEKSDVYSGVVLLEIITG	RDPVDRYR PAN	EVNLVE LKMMV	SRRSEEEVDPNIE TIPTRAK RAILVALRCV D	DSSKRP	M5OIVRML ESDPP				
18405946.p	-ACK	SHIT	TRV	GTC	YV	TAPE	YAN	LLNEKSDVYSGVVLLEIITG	RDPVDRYR PAN	EVNLVE LKMMV	TRRAEEVVD PNIE TIPTRAK RAILVALRCV D	DSSKRP	M5OIVRML ESEYY				
15217511.p	-DGK	SHIT	TRV	GTC	YV	TAPE	YAN	LLNEKSDVYSGVVLLEIITG	RDPVDRYR PAN	EVNLVE LKMMV	SKRLEEEVDPNIE TIPTRAK RAILVALRCV D	DSSKRP	M5OIVRML ESEYY				
15238840.p	-ADK	SHTT	TRV	GTC	YV	TAPE	YAN	LLNEKSDVYSGVVLLEIITG	RYPVDRYR PPPP	EVNLVE LKMMV	QRREEEVVD PNIE TIPTRAK RAILVALRCV D	DSSKRP	M5SKRML ESEYY				
15227459.p	AD	K	DVEDFGK	T	ALALITG	R	YE	EGV VSE	VYREWIGG	GEVVKV LLEG ILS	GEVVKV LLEG ILS	GEVVKV LLEG ILS			
22331140.p	ADSN	XVST	TRV	GTC	YV	TAPE	YAN	LLNEKSDVYSGVVLLEIITG	RYPVDRYR PAN	EVNLVE LKMMV	QKOFEEVVD KEDIEETPS EK RAILVALRCV D	DADKRP	M5OIVRML ESDHE				
48450017.q	SER	SYT	TRV	GTC	YV	TAPE	YAN	LLNEKSDVYSGVVLLEIITG	RTPVDRYR PAN	EVNLVE LKMMV	ERRVSEEEVDPNIE TIPTRAK RAILVALRCV D	DGGCRP	M5GHVVML EDDIK				
10690058.p	SET	SYT	TRV	GTC	YV	TAPE	YAN	LLNECSDVYSGVVLLEIITG	RSPVDRYR PPG	EMNLWD FKCMV	SRRVEEIIDVDPNIE TIPTRAK RAILVALRCV D	DSSKRP	M5OIIHML EAEFD				
62390013.q	SGS	SYT	TRV	GTC	YV	TAPE	YAN	LLNECSDIYSFGVVLLEIITG	RKPVDRYK SSVG	EVNLVE LKMMV	SRRVEEIIDVDPNIE TIPTRAK RAILVALRCV D	DSSKRP	M5OIVHML EGDFF				
AK064941.q	SER	SYT	TRV	GTC	YV	TAPE	YAC	CLMNERSDVYSGVVLLEIITG	RSPVDRYR PPG	EVNLVE LKTMV	TRNSDSDVYD PKPPTK TS RAK RAILVALRCV D	DARKRP	M5GHVHML ETEVDF				
44990021.q	SDNN	XVTT	TRV	GTC	YV	TAPE	YAC	CLMNERSDVYSGFCLILMEIISG	RSPVDRYR PAG	EVNLVE LKMMV	NDRYEAVD PPKP EPTK TS RAK RAILVALRCV D	DSSKRP	M5GHVHML EAEADL				
15235432.p	SEM	SYT	TRV	GTC	YV	TAPE	YAC	CLMNERSDVYSGFCLILMEIISG	RSPVDRYR PAG	EVNLVE LKMMV	NRDAE CVLDP RMDPSLRS K RAILVALRCV D	NAOKRP	M5GHVHML EAEADL				
15224589.p	SDT	TIPL	TPSP	.....	.....	.....	.....	.....	CLMNERSDVYSGFCLILMEIISG	RSPVDRYR PAG	EVNLVE LKMMV	.....	BLXBRP	M5DVHML OPHDL
4570019.q	SER	SYT	TRV	GTC	YV	TAPE	YAC	CLMNERSDVYSGFCLILMEIITG	RSPVDRYR PAG	EVNLVE LKMMV	ERKAEEVVD PPKP EPTK TS RAK RAILVALRCV D	DGHKR	M5GHVHML EGDFF				
15234142.p	SES	SYT	TRV	GTC	YV	TAPE	YAC	CLMTEKSDIYSFGVCLILMEIITG	RNPVDRYR PQG	EVNLVE LKTMV	NRRSEEEVDPNIE TIPTRAK RAILVALRCV D	DANKRP	M5GHVHML EAEADL				
15223428.p	SES	SYT	TRV	GTC	YV	TAPE	YAC	CLMTEKSDIYSFGVCLILMEIITG	RNPVDRYR PQG	EVNLVE LKSMV	NRRSEEEVDPNIE TIPTRAK RAILVALRCV D	DANKRP	M5GHVHML EAEADL				
30678150.p	SES	SYT	TRV	GTC	YV	TAPE	YAC	.....	CLMNEKSDIYSFGVCLILMEIITG	RNPVDRYR PAG	.....	PFKHQSCLFC K SYVVS	W1	W1			
28970005.q	ECM	HIV	SV	GTC	YV	TAPE	PEA	YLY	COLTEKSDVYSGVVLLEIITG	KRAPI SLGEQ	NFVLSE FAWLVR	REKTV DVI EGCVN EGPV EK VVLA VAI CTH	OHLARP	M5OIVHML EADSA				
15227189.p	ECM	HIV	SV	GTC	YV	TAPE	PEA	YLY	COLTEKSDVYSGVVLLEIITG	KRAPI SLGEQ	NFVLSE FAWLVR	EGOTLD VVGD GMP EPEV EK VVLA VAWGSH	OHLARP	M5OIVHML EADSA				
56440033.q	VFL	HIV	SV	GTC	YV	TAPE	PEA	YLY	CIVS VRTD VYAF CIVI PQL ISG	.....	LAJHE LIDER AEI YD IY GYHL RAYA YLCV	NPDRP	M5GEVRL VTE SENE					
18423902.p	EDCK	VE	RVG	T	FCY	TAPE	PEA	YLY	COITEKADVYSGFCLILMEIITG	RKAMDIYR PKG	QCQCTE PARL D	KOAIN ELD PRIMM CYC E B VOMA CA VYCIRR	DENSPR	M5QVIRML EGDGV					
15222672.p	DGE	LVD	VD	T	FCY	TAPE	PEA	YLY	COITEKADVYSGFCLILMEIITG	RKAMDIYR PKG	QCQCTE PARL D	DPHLRP	M5QVIRML EGDGV						
15231330.p	DGEM	VU	TRV	GTC	YV	TAPE	PEA	YLY	COITEKADVYSGFCLILMEIITG	RKAMDIYR PKG	QCQCTE PARL D	EYAI DEL PRUGNG RVESE VTCM HAA ST CIRR	DPHLRP	M5QVIRML EGDGV					
51820015.q	DGDM	VU	TRV	GTC	YV	TAPE	PEA	YLY	COITEKADVYSGFCLILMEIITG	RKAVDIN R PKG	QCQCTE PARL D	EYAI DEL PRUGNG RVESE VTCM HAA ST CIRR	DPHLRP	M5QVIRML EGDGV					
15219657.p	APSV	PPL	CKV	GTC	YV	TAPE	PEA	YLY	COITEKADVYSGFCLILMEIITG	RKAVDIN R PKG	QCQCTE PARL D	REKTEELLE DR LKCT RKN AS DMR IRMA AAC VCN	EESRP	M5KEVHL KKGEGG					
15240345.p	APSV	PPL	CKV	GTC	YV	TAPE	PEA	YLY	COISDKTDVYAF CIVLLEIITG	RKPHEAR PAG	QENIVU AKPL D	RGIEA VELVE DR LKCT RKN VSD DMR IRMA AAC VCN	ESRPG	M5KEVHL KKGEGG					
83605633.q	AST	TR	CTD	ITG	FGY	LAPE	FY	SHK	CIVK NEDVYAF CIVLLEIITG	RPRP TCCAK	QESLVN AKPL S	SGEIK QVNDP PLFNG YDCDE RERMLA ASIC CTR	MHDif fp	M5KEVHL KKGEGG					
AK067347.q	ASTP	TR	CTD	ITG	FGY	LAPE	FY	SHK	CIVK NEDVYAF CIVLLEIITG	RPRP TCCAK	QESLVN AKPL S	SGEIK QVNDP PLFNG YDCDE RERMLA ASIC CTR	MHDif fp	M5KEVHL KKGEGG					
83601222.q	SN	GS	LTH	SDV	TC	YV	PE	FYM	CIVT KDVYAF CIVLLEIITG	RPKPSDGS PKG	QESLVN AKPL S	SGD I SLL AD DV H DAB E KRM ALA ASIC LRR	SARLRP	M5QVIRML EGDGV					
15236248.p	TTSSR	IQ	DVN	T	FCY	TAPE	PEA	YLY	CIVT KDVYAF CIVLLEIITG	RPKPSDGS PKG	QESLVN AKPL S	SGD I SLL AD DV H DAB E KRM ALA ASIC LRR	SARLRP	M5QVIRML EGDGV					
15227291.p	KSCRY	I	QCD	V	TC	YV	PE	FYM	CIVK SDVYAF CIVLLEIITG	RTPS DSDP	QESLVN AKPL S	SGEIK QVNDP PLFNG YDCDE RERMLA ASIC CTR	SSHSRP	M5QVIRML EGDGV					
15223890.p	ISTTH	IIC	SDV	T	FCY	TAPE	PEA	YLY	CIVK SDVYAF CIVLLEIITG	RTPS DSDP	QESLVN AKPL S	SGEIK QVNDP PLFNG YDCDE RERMLA ASIC CTR	SSHSRP	M5QVIRML EGDGV					
22329713.p	ESTT	QIC	CPD	ITG	FGY	LAPE	FY	SHF	CIVK SDVYAF CIVLLEIITG	RTPV SESSPKA	QESLVN AKPL S	DKEYS LQSDS IPE DPN NSDN DSB E KRM ALA ASIC CTR	SSHSRP	M5QVIRML EGDGV					
15237563.p	STQH	VAGG	DI	ACT	FCY	TAPE	PEA	YLY	CIVT KDVYAF CIVLLEIITG	RTPV SESSPKA	QESLVN AKPL S	SGCFQALM DP SLEND S NDLS E KLL ALA CTR	TPIDR	M5QVIRML EGDGV					
83590712.q	EAASP	GDDV	A	CKF	Y	TAPE	PEA	YLY	CIVT KDVYAF CIVLLEIITG	RTPV SESSPKA	QESLVN AKPL S	SGCFQALM DP SLEND S NDLS E KLL ALA CTR	TPIDR	M5QVIRML EGDGV					
83590694.q	TGFvaaaaaa	gg	ll	ee	ki	ta	pe	fm	CIVV SDKDVYAF CIVLLEIITG	RTPV SESSPKA	QESLVN AKPL S	GGKLT DLD VLP DSPL ID GD GD G VAE RML PAI CIRR	TAIRP	M5KEVHL KKGEGG					
AK072656.q	DAVS	QTND	VC	TC	YV	TAPE	PEA	YLY	CIVV SDKDVYAF CIVLLEIITG	RTPV SESSPKA	QESLVN AKPL S	GGKLT DLD VLP DSPL ID GD GD G VAE RML PAI CIRR	TAIRP	M5KEVHL KKGEGG					
30698132.p	EHWP	PHI	VPI	IGC	TFC	YV	PE	FYM	CIVV SDKDVYAF CIVLLEIITG	RTPV SESSPKA	QESLVN AKPL S	GCKLT QVNDP PLFNG YDCDE RERMLA ASIC CTR	TPIDR	M5KEVHL KKGEGG					
18416229.p	ENW	PHI	HPV	TC	YV	TAPE	PEA	YLY	CIVV SDKDVYAF CIVLLEIITG	RTPV SESSPKA	QESLVN AKPL S	GCKLT QVNDP PLFNG YDCDE RERMLA ASIC CTR	TPIDR	M5KEVHL KKGEGG					
15239245.p	ENW	THB	HIV	SV	T	FCY	TAPE	PEA	CIVV SDKDVYAF CIVLLEIITG	RTPV SESSPKA	QESLVN AKPL S	KNNMEEVDPNIE TDE DNTSR	TPIDR	M5KEVHL KKGEGG					
30687061.p	DOW	THB	HIV	SV	T	FCY	TAPE	PEA	CIVV SDKDVYAF CIVLLEIITG	RTPV SESSPKA	QESLVN AKPL S	KNNMEEVDPNIE TDE DNTSR	TPIDR	M5KEVHL KKGEGG					
22330852.p	KOL	TKR	EC	CT	YV	TAPE	PEA	YLY	CIVV SDKDVYAF CIVLLEIITG	RTPV SESSPKA	QESLVN AKPL S	DKEYS LQSDS IPE DPN NSDN DSB E KRM ALA ASIC CTR	SSHRP	M5QVIRML EGDGV					
51680007.q	KWTB	HSV	VP	T	FCY	TAPE	PEA	YLY	CIVV SDKDVYAF CIVLLEIITG	RTPV SESSPKA	QESLVN AKPL S	DKEYS LQSDS IPE DPN NSDN DSB E KRM ALA ASIC CTR	SSHRP	M5QVIRML EGDGV					
15242821.p	NK	WTB	HPV	TC	YV	TAPE	PEA	YLY	CIVV SDKDVYAF CIVLLEIITG	RTPV SESSPKA	QESLVN AKPL S	GCKLT QVNDP PLFNG YDCDE RERMLA ASIC CTR	TPIDR	M5KEVHL KKGEGG					
22300012.q	SEW	THA	IAI	PI	CTC	YV	TAPE	YTH	CIVV SDKDVYAF CIVLLEIITG	RTPV SESSPKA	QESLVN AKPL S	GCKLT QVNDP PLFNG YDCDE RERMLA ASIC CTR	TPIDR	M5KEVHL KKGEGG					
AK105794.q	SEW	THA	IAI	PI	CTC	YV	TAPE	YTH	CIVV SDKDVYAF CIVLLEIITG	RTPV SESSPKA	QESLVN AKPL S	KNNMEEVDPNIE TDE DNTSR	TPIDR	M5KEVHL KKGEGG					
15224251.p	SOW	THB	HIV	SV	T	FCY	TAPE	YTH	CIVV SDKDVYAF CIVLLEIITG	RTPV SESSPKA	QESLVN AKPL S	KNNMEEVDPNIE TDE DNTSR	TPIDR	M5KEVHL KKGEGG					
47670022.q	ASMT	HOV	TC	YV	TAPE	PEY	TS	SH	CIVF KDVYAF CIVLLEIITG	RTPV SESSPKA	QESLVN AKPL S	ENKIK CLVDP RMDPSL ID GD GD YD E D R V M P L A I C I H O L I C K R	TSNMRP	M5QVIRML EGDGV					
AK102832.q	TEQ	THV	STV	GTC	YV	TAPE	PEA	YLY	CIVF KDVYAF CIVLLEIITG	RTPV SESSPKA	QESLVN AKPL S	ENKIK CLVDP RMDPSL ID GD GD YD E D R V M P L A I C I H O L I C K R	TSNMRP	M5QVIRML EGDGV					
AK110196.q	GDD	THV	STV	GTC	YV	TAPE	PEA	YLY	CIVF KDVYAF CIVLLEIITG	RTPV SESSPKA	QESLVN AKPL S	TGNTSE LVPNIE TDE DNTSR	TPIDR	M5QVIRML EGDGV					
83603447.q	GNE	THV	STV	GTC	YV	TAPE	PEA	YLY	CIVF KDVYAF CIVLLEIITG	RTPV SESSPKA	QESLVN AKPL S	TGNTSE LVPNIE TDE DNTSR	TPIDR	M5QVIRML EGDGV					
83601468.q	GNE	THV	STV	GTC	YV	TAPE	PEA	YLY	CIVF KDVYAF CIVLLEIITG	RTPV SESSPKA	QESLVN AKPL S	KNS MEDIVDP RPNIE TDE DNTSR	TPIDR	M5QVIRML EGDGV					
37460011.p	NDV	THV	STV	GTC	YV	TAPE	PEA	YLY	CIVF KDVYAF CIVLLEIITG	RTPV SESSPKA	QESLVN AKPL S	KNS MEDIVDP RPNIE TDE DNTSR	TPIDR	M5QVIRML EGDGV					
AK101096.q	DAV	THV	STV	GTC	YV	TAPE	PEA	YLY	CIVF KDVYAF CIVLLEIITG	RTPV SESSPKA	QESLVN AKPL S	ENKIK CLVDP RMDPSL ID GD GD YD E D R V M P L A I C I H O L I C K R	TSNMRP	M5QVIRML EGDGV					
15221470.p	DCN	THIT	TRV	GTC	YV	TAPE	PEA	YLY	CIVF KDVYAF CIVLLEIITG	RTPV SESSPKA	QESLVN AKPL S	ENKIK CLVDP RMDPSL ID GD GD YD E D R V M P L A I C I H O L I C K R	TSNMRP	M5QVIRML EGDGV					
15222649.p	ELD	LNH	THV	STV	GTC	YV	TAPE	PEA	CIVF KDVYAF CIVLLEIITG	RTPV DTQPL	DES LV E D K E T G G	ENATEF T A L P D K P G K N I P F G M R M E C A A A V C R H	SATKRP	M5OIVRML DSEGD					
15224047.p	ELD	LNH	THV	STV	GTC	YV	TAPE	PEA	CIVF KDVYAF CIVLLEIITG	RTPV DTQPL	DES LV E D K E T G G	ENATEF T A L P D K P G K N I P F G M R M E C A A A V C R H	SATKRP	M5OIVRML DSEGD					
15218591.p	TAQ	SHIS	TRV	GTC	YV	TAPE	PEA	YLY	CIVF KDVYAF CIVLLEIITG	RTPV DTQPL	DES LV E A R L I S	EATEK D G I S E V D P R E N D Y V E S E Y K M I E T A A C C I R H	SALKRP	M5QVIRML DSEGD					
15220786.p	TDN	Stp	KLD	LD	P	DEK	Y	PEA	CIVF KDVYAF CIVLLEIITG	RTPV DTQPL	DES LV E A R L I S	KAIET G D L S E L I D T R E K Y V E R M E T A A C C I R H	SGFRP	M5QVIRML DSEGD					
AK101943.q	TDN	THV	STV	GTC	YV	TAPE	PEA	YLY	CIVF KDVYAF CIVLLEIITG	RTPV DTQPL	DES LV E A R L I S	KAIET G D L S E L I D T R E K Y V E R M E T A A C C I R H	SGFRP	M5QVIRML DSEGD					
1522160.p	TDN	THV	STV	GTC	YV	TAPE	PEA	YLY	CIVF KDVYAF CIVLLEIITG	RTPV DTQPL	DES LV E A R L I S	KAIET G D L S E L I D T R E K Y V E R M E T A A C C I R H	SGFRP	M5QVIRML DSEGD					
15223161.p	TDN	THV	STV	GTC	YV	TAPE	PEA	YLY	CIVF KDVYAF CIVLLEIITG	RTPV DTQPL	DES LV E A R L I S	KAIET G D L S E L I D T R E K Y V E R M E T A A C C I R H	SGFRP	M5QVIRML DSEGD					
AK100169.q	DH	THV	STV	GTC	YV	TAPE	PEA	YLY	CIVF KDVYAF CIVLLEIITG	RTPV DTQPL	DES LV E A R L I S	DAVET G D L S E L I D T R E K Y V E R M E T A A C C I R H	SAFRP	M5QVIRML DSEGD					
AK070389.q	DSV	THV	STV	GTC	YV	TAPE	PEA	YLY	CIVF KDVYAF CIVLLEIITG	RTPV DTQPL	DES LV E A R L I S	DALETT D F L A P D A R E Y S K S E R M V R A Y A C C I R H	SFRP	M5QVIRML DSEGD					
22329101.p	DTN	SS	FI	TH	STV	GTC	YV	TAPE	PEA	CIVT KSDVYSGVVLLEIITG	RTPV DTQPL	DES LV E A R L I S	KAIET G S F D L D S R U E K N Y D T D T O M A C A A C C I R H	SANLRP	M5QVIRML DSEGD				

30690042.p DNYHVSTRVGMTCYCAPEYAS S KLSKSDKSDVVFSCVMLLELITC RFLDLTGM EOSLYDWARPLCL KAAQDGDDYNOADPFLELNYSHOPMVQMASCAAAAARH SARRPK MSQIVRALECDMS
 15230209.p DNVHVSTRVGMTCYCAPEYAS S KLTDRSDVVFSCVMLLELITC RRVDLTGEM EOSLYDWARPLCL NAAQDGDDYSLVDPFLENOYEPHMDAMVACAAAARH SARRPK MSQIVRALEDAT
 15222081.p DNNHVSTRVGMTCYCAPEYAS S KLTKEKSDVVFSCVMLLELITC RRVDLSDGM EOSLYDWARPLCL NAAQDGDDYSLVDPFLENOYEPHMDAMVACAAAARH SARRPK MSQIVRALEDAS
 15231654.p SDMMHVSTRVGMTCYCAPEYAS S KLTLSKSDIYSFCVVLLLELITC RRALMPSSECCGNQSRTYLEWARPLFL NGRIRQIVDFRLRKGGFNSILYRSIEVAFLCLAE PANRPS MSQIVVCECLKIID
 15223033.p VGNRHVSTRVGMTCYCAPEYAS S KLTLSKSDIYSFCVVLLLELITC RRALMPSSECCGNQSRTYLEWARPLFL DKKPGLLVDPLURCKFVKRLCLNAYAITEMCND EAHYRPPK IGDVVVAEFLIAS
 15217992.p VGDHVSTRVGMTCYCAPEYAS S KLTLSKSDIYSFCVVLLLELITC RRALMPSSECCGNQSRTYLEWARPLFL DKKPGLLVDPLURCKFVKRLCLNAYAITEMCND EAHYRPPK IGDVVVAEFLAA
 AK102717.p VGDHVSTRVGMTCYCAPEYAT CKLTKSDVVFSCVMLLELITC RRALMPSSECCGNQSRTYLEWARPLFL DKKRKFYRLADPALHGCPSTSALNOLVVISIMCQD OHVAPI ISDVGIVGLNVAS
 AK100639.p VGDHVSTRVGMTCYCAPEYAT CKLTKSDVVFSCVMLLELITC RRALMPSSECCGNQSRTYLEWARPLFL DKKRKFYRLADPALHGCPSTSALNOLVVISIMCQD OHVAPI ISDVGIVGLNVAS
 AK071077.p VGDHVSTRVGMTCYCAPEYAT CKLTKSDIYSFCVVLLLELITC RRALMPSSECCGNQSRTYLEWARPLFL DKKKFKVFLADPLULEEKFLKLKALAHAMCLOE DASNPMT ISDVGIVVALESLOE
 AK070226.p VGDHVSTRVGMTCYCAPEYAT CKLTKSDIYSFCVVLLLELITC RRALMPSSECCGNQSRTYLEWARPLFL DKKKFKVFLADPLULEEKFLKLKALAHAMCLOE DASNPMT ISDVGIVVALESLOE
 AK072294.p TGGHVSTRVGMTCYCAPEYAT CKLTKSDIYSFCVVLLLELITC RRALMPSSECCGNQSRTYLEWARPLFL DKKKFKVFLADPLULEEKFLKLKALAHAMCLOE DATMPPA ISDVGIVTALELTV
 61980009.q VGGKHVSTRVGMTCYCAPEYAT CKLTKSDIYSFCVVLLLELITC RRALMPSSECCGNQSRTYLEWARPLFL DKKRKFYRLADPALHGCPSTSALNOLVVISIMCQD EAHYRPPK IGDVVVAEFLAA
 61980010.q FEGDHVSTRVGMTCYCAPEYAT CKLTKSDIYSFCVVLLLELITC RRALMPSSECCGNQSRTYLEWARPLFL DKKRKFYRLADPALHGCPSTSALNOLVVISIMCQD EAHYRPPK IGDVVVAEFLAA
 18397825.p VGDHVSSRVMTCYCAPEYAT CKLTKSDVVFSCVMLLELITC RRALMPSSECCGNQSRTYLEWARPLFL DKKRKFYRLADPALHGCPSTSALNOLVVISIMCQD OHVAPI ISDVGIVGLNVAS
 15230190.p VGDHVSSRVMTCYCAPEYAT CKLTKSDVVFSCVMLLELITC RRALMPSSECCGNQSRTYLEWARPLFL DKKRKFYRLADPALHGCPSTSALNOLVVISIMCQD OHVAPI ISDVGIVGLNVAS
 15235623.p VGDTCNVSRRVMTCYCAPEYAT CKLTKSDVVFSCVMLLELITC RRALMPSSECCGNQSRTYLEWARPLFL DKKRKFYRLADPALHGCPSTSALNOLVVISIMCQD OHVAPI ISDVGIVTALESLOE
 15237361.p GTGDSLSSLRVMTCYCAPEYAT CNLTKSDVVFSCVMLLELITC RRALMPSSECCGNQSRTYLEWARPLFL DKKRKFYRLADPALHGCPSTSALNOLVVISIMCQD OHVAPI ISDVGIVTALESLOE
 15232987.p gTGDKMMALSSRVMTCYCAPEYAT CNLTKSDVVFSCVMLLELITC RRALMPSSECCGNQSRTYLEWARPLFL DKKRKFYRLADPALHGCPSTSALNOLVVISIMCQD OHVAPI ISDVGIVTALESLOE
 42110005.q VGGNAPAPMGSCGGCAPEYDS CNLTKSDVVFSCVMLLELITC RRALMPSSECCGNQSRTYLEWARPLFL DKKRKFYRLADPALHGCPSTSALNOLVVISIMCQD OHVAPI ISDVGIVTALESLOE
 27260970.p SdgDGCDDHHGLRD CNLTKSDVVFSCVMLLELITC RRALMPSSECCGNQSRTYLEWARPLFL DKKRKFYRLADPALHGCPSTSALNOLVVISIMCQD OHVAPI ISDVGIVTALESLOE
 15237373.p IEKSGCHFCYEBYCKE CNLTKSDVVFSCVMLLELITC RRALMPSSECCGNQSRTYLEWARPLFL AGPPALAEVderagPKADKAESRLAPAVALACVAN DGRSPR MAEVSAIISLER
 30696629.p TEKGHVSTRVGMTCYCAPEYAT CNLTKSDVVFSCVMLLELITC RRALMPSSECCGNQSRTYLEWARPLFL RFAELIDPDRVVGSEKTSVIRIAVALACVGN SRRSPS ISEVAAIDNSLER
 AK067283.p VGDHVSTRVGMTCYCAPEYAT CNLTKSDVVFSCVMLLELITC RRALMPSSECCGNQSRTYLEWARPLFL EENRPFELADPLQOEEPEKLNAAVIAAMCLOE EAHYRPPK MGDVVTALESLOK
 AK010371.p VGDHVSTRVGMTCYCAPEYAT CNLTKSDVVFSCVMLLELITC RRALMPSSECCGNQSRTYLEWARPLFL EENRPFELADPLQOEEPEKLNAAVIAAMCLOE EAHYRPPK IGDVVTALESLOK
 AK100827.p VGDHVSTRVGMTCYCAPEYAT CNLTKSDVVFSCVMLLELITC RRALMPSSECCGNQSRTYLEWARPLFL EENRPFELADPLQOEEPEKLNAAVIAAMCLOE EAHYRPPK IGDVVTALESLOK
 AK072806.p IGDHVSTRVGMTCYCAPEYAT CNLTKSDVVFSCVMLLELITC RRALMPSSECCGNQSRTYLEWARPLFL EENRPFELADPLQOEEPEKLNAAVIAAMCLOE EAHYRPPK IGDVVTALESLOK
 30679773.p VGDHVSTRVGMTCYCAPEYAT CNLTKSDVVFSCVMLLELITC RRALMPSSECCGNQSRTYLEWARPLFL EENRPFELADPLQOEEPEKLNAAVIAAMCLOE EAHYRPPK IGDVVTALESLOK
 15238866.p VGDHVSTRVGMTCYCAPEYAT CNLTKSDVVFSCVMLLELITC RRALMPSSECCGNQSRTYLEWARPLFL EENRPFELADPLQOEEPEKLNAAVIAAMCLOE EAHYRPPK IGDVVTALESLOK
 15240038.p TGDHVSTRVGMTCYCAPEYAT CNLTKSDVVFSCVMLLELITC RRALMPSSECCGNQSRTYLEWARPLFL EENRPFELADPLQOEEPEKLNAAVIAAMCLOE EAHYRPPK IGDVVTALESLOK
 AK063305.q VGDHVSTRVGMTCYCAPEYAT CNLTKSDVVFSCVMLLELITC RRALMPSSECCGNQSRTYLEWARPLFL EENRPFELADPLQOEEPEKLNAAVIAAMCLOE EAHYRPPK IGDVVTALESLOK
 49010005.q VGDHVSTRVGMTCYCAPEYAT CNLTKSDVVFSCVMLLELITC RRALMPSSECCGNQSRTYLEWARPLFL EENRPFELADPLQOEEPEKLNAAVIAAMCLOE EAHYRPPK IGDVVTALESLOK
 AK067054.q VGDHVSTRVGMTCYCAPEYAT CNLTKSDVVFSCVMLLELITC RRALMPSSECCGNQSRTYLEWARPLFL EENRPFELADPLQOEEPEKLNAAVIAAMCLOE EAHYRPPK IGDVVTALESLOK
 15226901.p RESEHVSTRVGMTCYCAPEYAT CNLTKSDVVFSCVMLLELITC RRALMPSSECCGNQSRTYLEWARPLFL EENRPFELADPLQOEEPEKLNAAVIAAMCLOE EAHYRPPK IGDVVTALESLOK
 15232024.p SGDHVSTRVGMTCYCAPEYAT CNLTKSDIYSFCVVLLLELITC RRALMPSSECCGNQSRTYLEWARPLFL EENRPFELADPLQOEEPEKLNAAVIAAMCLOE EAHYRPPK IGDVVTALESLOK
 AK105569.q TGDHVSTRVGMTCYCAPEYLS CNLTKSDIYSFCVVLLLELITC RRALMPSSECCGNQSRTYLEWARPLFL EENRPFELADPLQOEEPEKLNAAVIAAMCLOE EAHYRPPK IGDVVTALESLOK
 30684071.p PEGLHVSTVGMTCYCAPEYVOT CNLTKSDVVFSCVMLLELITC RRALMPSSECCGNQSRTYLEWARPLFL EENRPFELADPLQOEEPEKLNAAVIAAMCLOE EAHYRPPK IGDVVTALESLOK
 30687780.p SDGICHVSTAVGMTCYCAPEYVOT CNLTKSDVVFSCVMLLELITC RRALMPSSECCGNQSRTYLEWARPLFL EENRPFELADPLQOEEPEKLNAAVIAAMCLOE EAHYRPPK IGDVVTALESLOK
 15242720.p SPGSHVSTDVGMTCYCAPEYVOT CNLTKSDVVFSCVMLLELITC RRALMPSSECCGNQSRTYLEWARPLFL EENRPFELADPLQOEEPEKLNAAVIAAMCLOE EAHYRPPK IGDVVTALESLOK
 15232764.p SEGLHVSTDVGMTCYCAPEYVOT CNLTKSDVVFSCVMLLELITC RRALMPSSECCGNQSRTYLEWARPLFL EENRPFELADPLQOEEPEKLNAAVIAAMCLOE EAHYRPPK IGDVVTALESLOK
 AK062188.q SEGLHVSTAVGMTCYCAPEYMO CNLTKSDVVFSCVMLLELITC RRALMPSSECCGNQSRTYLEWARPLFL EENRPFELADPLQOEEPEKLNAAVIAAMCLOE EAHYRPPK IGDVVTALESLOK
 40150016.q QDGHVSTAVGMTCYCAPEYVOT CNLTKSDVNDI SYCVVLLLELITC RRALMPSSECCGNQSRTYLEWARPLFL EENRPFELADPLQOEEPEKLNAAVIAAMCLOE EAHYRPPK IGDVVTALESLOK
 15238002.p DGDHVSTAVGMTCYCAPEYVOT CNLTKSDVNDI SYCVVLLLELITC RRALMPSSECCGNQSRTYLEWARPLFL EENRPFELADPLQOEEPEKLNAAVIAAMCLOE EAHYRPPK IGDVVTALESLOK
 30684132.p EGDHVSTAVGMTCYCAPEYVOT CNLTKSDVNDI SYCVVLLLELITC RRALMPSSECCGNQSRTYLEWARPLFL EENRPFELADPLQOEEPEKLNAAVIAAMCLOE EAHYRPPK IGDVVTALESLOK
 AK070024.p TGANHVSTAVGMTCYCAPEYVOT CNLTKSDVNDI SYCVVLLLELITC RRALMPSSECCGNQSRTYLEWARPLFL EENRPFELADPLQOEEPEKLNAAVIAAMCLOE EAHYRPPK IGDVVTALESLOK
 AK105337.p TEGKHVSTAVGMTCYCAPEYVOT CNLTKSDVNDI SYCVVLLLELITC RRALMPSSECCGNQSRTYLEWARPLFL EENRPFELADPLQOEEPEKLNAAVIAAMCLOE EAHYRPPK IGDVVTALESLOK
 AK101160.p TADNHVSTAVGMTCYCAPEYVOT CNLTKSDVNDI SYCVVLLLELITC RRALMPSSECCGNQSRTYLEWARPLFL EENRPFELADPLQOEEPEKLNAAVIAAMCLOE EAHYRPPK IGDVVTALESLOK
 83524246.p SECQHVSTAVGMTCYCAPEYVOT CNLTKSDVNDI SYCVVLLLELITC RRALMPSSECCGNQSRTYLEWARPLFL EENRPFELADPLQOEEPEKLNAAVIAAMCLOE EAHYRPPK IGDVVTALESLOK
 AK064119.p SECQHVSTAVGMTCYCAPEYVOT CNLTKSDVNDI SYCVVLLLELITC RRALMPSSECCGNQSRTYLEWARPLFL EENRPFELADPLQOEEPEKLNAAVIAAMCLOE EAHYRPPK IGDVVTALESLOK
 62740001.p VDGQHVSTAVGMTCYCAPEYVOT CNLTKSDVSDV SFCVVLLLELITC RRALMPSSECCGNQSRTYLEWARPLFL EENRPFELADPLQOEEPEKLNAAVIAAMCLOE EAHYRPPK IGDVVTALESLOK
 AK103249.p TEEETSNASVAANASVTELEK CNLTKSDVSDV SFCVVLLLELITC RRALMPSSECCGNQSRTYLEWARPLFL EENRPFELADPLQOEEPEKLNAAVIAAMCLOE EAHYRPPK IGDVVTALESLOK
 15231963.p ETETSNSSALANASVTELEK CNLTKSDVSDV SFCVVLLLELITC RRALMPSSECCGNQSRTYLEWARPLFL EENRPFELADPLQOEEPEKLNAAVIAAMCLOE EAHYRPPK IGDVVTALESLOK
 15220535.p EGSKHVSTTRVGMTCYCAPEYVOT CNLTKSDVVFSCVMLLELITC RRALMPSSECCGNQSRTYLEWARPLFL EENRPFELADPLQOEEPEKLNAAVIAAMCLOE EAHYRPPK IGDVVTALESLOK
 AK066081.p EGSEHVSTTRVGMTCYCAPEYVOT CNLTKSDVVFSCVMLLELITC RRALMPSSECCGNQSRTYLEWARPLFL EENRPFELADPLQOEEPEKLNAAVIAAMCLOE EAHYRPPK IGDVVTALESLOK
 AK066529.p EGSEHVSTTRVGMTCYCAPEYVOT CNLTKSDVVFSCVMLLELITC RRALMPSSECCGNQSRTYLEWARPLFL EENRPFELADPLQOEEPEKLNAAVIAAMCLOE EAHYRPPK IGDVVTALESLOK
 15238553.p QGDDHVSTRVGMTCYCAPEYVOT CNLTKSDVVFSCVMLLELITC RRALMPSSECCGNQSRTYLEWARPLFL EENRPFELADPLQOEEPEKLNAAVIAAMCLOE EAHYRPPK IGDVVTALESLOK
 15225019.p ECDDHVSTRVGMTCYCAPEYVOT CNLTKSDVVFSCVMLLELITC RRALMPSSECCGNQSRTYLEWARPLFL EENRPFELADPLQOEEPEKLNAAVIAAMCLOE EAHYRPPK IGDVVTALESLOK
 15225277.p ECEHHVSTTRVGMTCYCAPEYVOT CNLTKSDVVFSCVMLLELITC RRALMPSSECCGNQSRTYLEWARPLFL EENRPFELADPLQOEEPEKLNAAVIAAMCLOE EAHYRPPK IGDVVTALESLOK
 15218526.p EEDDSNEFKSVGMTCYCAPEYVOT CNLTKSDVVFSCVMLLELITC RRALMPSSECCGNQSRTYLEWARPLFL EENRPFELADPLQOEEPEKLNAAVIAAMCLOE EAHYRPPK IGDVVTALESLOK
 AK106955.q QGDAHVSTTRVGMTCYCAPEYVOT CNLTKSDVVFSCVMLLELITC RRALMPSSECCGNQSRTYLEWARPLFL EENRPFELADPLQOEEPEKLNAAVIAAMCLOE EAHYRPPK IGDVVTALESLOK
 50140007.p QGDAHVSTTRVGMTCYCAPEYVOT CNLTKSDVVFSCVMLLELITC RRALMPSSECCGNQSRTYLEWARPLFL EENRPFELADPLQOEEPEKLNAAVIAAMCLOE EAHYRPPK IGDVVTALESLOK
 AK068330.p QGDDHVSTRVGMTCYCAPEYVOT CNLTKSDVVFSCVMLLELITC RRALMPSSECCGNQSRTYLEWARPLFL EENRPFELADPLQOEEPEKLNAAVIAAMCLOE EAHYRPPK IGDVVTALESLOK
 AK071281.p EGDDHVSTRVGMTCYCAPEYVOT CNLTKSDVVFSCVMLLELITC RRALMPSSECCGNQSRTYLEWARPLFL EENRPFELADPLQOEEPEKLNAAVIAAMCLOE EAHYRPPK IGDVVTALESLOK
 40290009.p QEDEHVSTRVGMTCYCAPEYVOT CNLTKSDVVFSCVMLLELITC RRALMPSSECCGNQSRTYLEWARPLFL EENRPFELADPLQOEEPEKLNAAVIAAMCLOE EAHYRPPK IGDVVTALESLOK
 AK107046.p EDEDEHVSTRVGMTCYCAPEYVOT CNLTKSDVVFSCVMLLELITC RRALMPSSECCGNQSRTYLEWARPLFL EENRPFELADPLQOEEPEKLNAAVIAAMCLOE EAHYRPPK IGDVVTALESLOK
 AK072944.p RGKHVSTRVGMTCYCAPEYVOT CNLTKSDVVFSCVMLLELITC RRALMPSSECCGNQSRTYLEWARPLFL EENRPFELADPLQOEEPEKLNAAVIAAMCLOE EAHYRPPK IGDVVTALESLOK
 22325532.p RGQHVSTRVGMTCYCAPEYVOT CNLTKSDVVFSCVMLLELITC RRALMPSSECCGNQSRTYLEWARPLFL EENRPFELADPLQOEEPEKLNAAVIAAMCLOE EAHYRPPK IGDVVTALESLOK
 AK100479.p SGDQHVSTRVGMTCYCAPEYVOT CNLTKSDVVFSCVMLLELITC RRALMPSSECCGNQSRTYLEWARPLFL EENRPFELADPLQOEEPEKLNAAVIAAMCLOE EAHYRPPK IGDVVTALESLOK
 AK058504.p EGDDHVSTRVGMTCYCAPEYVOT CNLTKSDVVFSCVMLLELITC RRALMPSSECCGNQSRTYLEWARPLFL EENRPFELADPLQOEEPEKLNAAVIAAMCLOE EAHYRPPK IGDVVTALESLOK
 30679085.p QGDEHVSTRVGMTCYCAPEYVOT CNLTKSDVVFSCVMLLELITC RRALMPSSECCGNQSRTYLEWARPLFL EENRPFELADPLQOEEPEKLNAAVIAAMCLOE EAHYRPPK IGDVVTALESLOK
 15241220.p VGDHVSTRVGMTCYCAPEYVOT CNLTKSDVVFSCVMLLELITC RRALMPSSECCGNQSRTYLEWARPLFL EENRPFELADPLQOEEPEKLNAAVIAAMCLOE EAHYRPPK IGDVVTALESLOK
 AK065635.p VGDHVSTRVGMTCYCAPEYVOT CNLTKSDVVFSCVMLLELITC RRALMPSSECCGNQSRTYLEWARPLFL EENRPFELADPLQOEEPEKLNAAVIAAMCLOE EAHYRPPK IGDVVTALESLOK
 AK106265.p VGDHVSTRVGMTCYCAPEYVOT CNLTKSDVVFSCVMLLELITC RRALMPSSECCGNQSRTYLEWARPLFL EENRPFELADPLQOEEPEKLNAAVIAAMCLOE EAHYRPPK IGDVVTALESLOK
 34898434.p QGDHVSTRVGMTCYCAPEYVOT CNLTKSDVVFSCVMLLELITC RRALMPSSECCGNQSRTYLEWARPLFL EENRPFELADPLQOEEPEKLNAAVIAAMCLOE EAHYRPPK IGDVVTALESLOK
 83540621.p QGDDHVSTRVGMTCYCAPEYVOT CNLTKSDVVFSCVMLLELITC RRALMPSSECCGNQSRTYLEWARPLFL EENRPFELADPLQOEEPEKLNAAVIAAMCLOE EAHYRPPK IGDVVTALESLOK
 AK103037.p EGDHVSTRVGMTCYCAPEYVOT CNLTKSDVVFSCVMLLELITC RRALMPSSECCGNQSRTYLEWARPLFL EENRPFELADPLQOEEPEKLNAAVIAAMCLOE EAHYRPPK IGDVVTALESLOK
 AK064216.p VGDHVSTRVGMTCYCAPEYVOT CNLTKSDVVFSCVMLLELITC RRALMPSSECCGNQSRTYLEWARPLFL EENRPFELADPLQOEEPEKLNAAVIAAMCLOE EAHYRPPK IGDVVTALESLOK
 15242204.p DEGKHVSTRVGMTCYCAPEYVOT CNLTKSDVVFSCVMLLELITC RRALMPSSECCGNQSRTYLEWARPLFL EENRPFELADPLQOEEPEKLNAAVIAAMCLOE EAHYRPPK IGDVVTALESLOK
 15232085.p DEGKHVSTRVGMTCYCAPEYVOT CNLTKSDVVFSCVMLLELITC RRALMPSSECCGNQSRTYLEWARPLFL EENRPFELADPLQOEEPEKLNAAVIAAMCLOE EAHYRPPK IGDVVTALESLOK
 15233058.p DEKKHVSTRVGMTCYCAPEYVOT CNLTKSDVVFSCVMLLELITC RRALMPSSECCGNQSRTYLEWARPLFL EENRPFELADPLQOEEPEKLNAAVIAAMCLOE EAHYRPPK IGDVVTALESLOK
 83534618.p VGDMAHVSTRVGMTCYCAPEYVOT CNLTKSDVVFSCVMLLELITC RRALMPSSECCGNQSRTYLEWARPLFL EENRPFELADPLQOEEPEKLNAAVIAAMCLOE EAHYRPPK IGDVVTALESLOK
 AK106421.p TGDHVSTRVGMTCYCAPEYVOT CNLTKSDVVFSCVMLLELITC RRALMPSSECCGNQSRTYLEWARPLFL EENRPFELADPLQOEEPEKLNAAVIAAMCLOE EAHYRPPK IGDVVTALESLOK
 30699019.p KDNRHVSTTBVGMTCYCAPEYVOT CNLTKSDVVFSCVMLLELITC RRALMPSSECCGNQSRTYLEWARPLFL EENRPFELADPLQOEEPEKLNAAVIAAMCLOE EAHYRPPK IGDVVTALESLOK
 AK102358.p TGDHVSTQVMTCYCAPEYVOT CNLTKSDVVFSCVMLLELITC RRALMPSSECCGNQSRTYLEWARPLFL EENRPFELADPLQOEEPEKLNAAVIAAMCLOE EAHYRPPK IGDVVTALESLOK
 35750064.p TGDHVSTKVGTMTCYCAPEYVOT CNLTKSDVVFSCVMLLELITC RRALMPSSECCGNQSRTYLEWARPLFL EENRPFELADPLQOEEPEKLNAAVIAAMCLOE EAHYRPPK IGDVVTALESLOK
 15223723.p TGDHVSTKVGTMTCYCAPEYVOT CNLTKSDVVFSCVMLLELITC RRALMPSSECCGNQSRTYLEWARPLFL EENRPFELADPLQOEEPEKLNAAVIAAMCLOE EAHYRPPK IGDVVTALESLOK

15227042.p TDGKSHVSTRVMGTGYAAPPEYVAT CRLTAKSDVYVSFVVVLELLSG RRVNDKSKGVRG MEQSLVDWATPYPD G DKKRKFPRIMDFLGGOYPQKAYTAALALQCNP DKKLRPK MSEVLAQLDQLES
 15223401.p TDGKSHVSTRVMGTGYAAPPEYVAT CRITAKSDVYVSFVVVLELLSG RLVDTKTKVG VERNLWDWAPYD G DKKRKFPRIMDFLGGOYPQKACATANALACCNQ EKKLRPK MSDVLDSTLEBLEM
 15222454.p TDGKSHVSTRVMGTGYAAPPEYVAT CRLTAKSDVYVSFVVVLELLSG RPILDKSKVRG VERNLWDWAPYD G DKKRKFPRIMDFLGGOYPQKACATANALACCNQ EKKLRPK MADVLSTLQOLET
 30694253.p MGEQSVYSTRVMGTGYAAPPEYVAT CHNARSDVYVSFVVVLELLCG RQALDNIRPA KEONLVDWAPYD G SRRKVLIDIVDFLNSQMKPEAVRLIAVQCLCSF EKKSRPT MDQVVRALVQLQD
 15225520.p MGDLGVYSTRVMGTGYAAPPEYMS CRLNRSVYVSFVVVLELLSG KRALDNIRPA KEENLVDWAPYD G SKRKVLIDIVDFLNDIQLQPEAVRLIAVQCLCSF EKKSRPT MDQVVRALVQLQD
 15241749.p MGDNHSKVSTRVMGTGYAAPPEYLAT CRLSVKSDVYVSFVVVLELLSG RRADKNPQV GEONLVDWAPYD G NKRKLRVMDPLQQQYSLTRAKIAVACLCISI EKKSRPT MNEIVKMDLHII
 30679590.p MGDNHSKVSTRVMGTGYAAPPEYLAT CRLSVKSDVYVSFVVVLELLSG RRADKNPQV GEONLVDWAPYD G NKRKLRVMDPLQQQYSLTRAKIAVACLCISI EKKSRPT MNEIVKMDLHII
 AK070847.q VEGKSHVSTRVMGTGYAAPPEYLAT CRLTAKSDVYVSFVVVLELLSG RRADKNPQV GEONLVDWAPYD G HKRKLFVLDLFLQEGYHVGAQVIALAGECYSY EKKMPS MEAVVHILELQE
 15222437.p IGDGSHVSTRVMGTGYAAPPEYLAT CRLTAKSDVYVSFVVVLELLSG RRADKNPQV GEONLVDWAPYD G HKRKLFVLDLFLQEGYHVGAQVIALAGECYSY EKKMPS MEAVVHILELQE
 15227001.p TDGKSHVSTRVMGTGYAAPPEYLAT CRLTAKSDVYVSFVVVLELLSG RRADKNPQV GEONLVDWAPYD G HKRKLFVLDLFLQEGYHVGAQVIALAGECYSY EKKMPS MEAVVHILELQE
 15232406.p RDGKSYSTNLAYPPPEYLT CRVTEESVVFSPVVLLDLMSC KHIPPSHA LDLLIRGKNC AMLMDSALEGHFLNEDGFLVRLA EAREPN VKLSLTVSLLQK
 15237465.p RDGKSYSTNLAYPPPEYLT CRVTEESVIFSYCILLDLMSC KHIPPSHA LDLLIRGKNC LMDSSLECOYANDDATLVDLAKCLO EKDKPD TKELLSAVAQLQK
 AK107462.q RDGKSYSTNLAYPPPEYLT CRVTEESVIFSYCILLDLMSC KHIPPSHA LDLLIRGKNC LMDSSLECOYANDDATLVDLAKCLO EKDKPD IKYMLSSVGLQK
 18418600.p RDGKSYSTNLAYPPPEYLN CRVTEESVIFSPVVLLDLMSC KRPSPSHALD M IRGKNNQVLLDSLECKYSTEATLVDLAKCLO EAREPN TKDQVATLALQQT
 AK104997.q RDGKSYSTNLAYPPPEYLN CRVTEESVIFSPVVLLDLMSC KRPSPSHALD M IRGKNNQVLLDSLECKYSTEATLVDLAKCLO EAREPN TQKLVSLLDQQT
 310017.q RDGKSYSTNLAYPPPEYLN CRVTEESVVFSPVVLLDLMSC KRPSPSHALD M IRGKNNQVLLDSLECKYSTEATLVDLAKCLO EAREPN TKDQVATLALQQT
 15227366.p RDGKSYSTNLAYPPPEYLN NNDQ- ITT CRVTEESVVFSPVVLLDLMSC KRPSPSHAPE M IRGKNNQVLLDSLECKYSTEATLVDLAKCLO EAREPN TKDQVATLALQQT
 15227384.p IRYNRREGGN-VRT CRVTEESVVFSPVVLLDLMSC KRPSPSHAPE MINGKDV EKDKPD EMLDPNLKCKFSTEATLVDLAKCLO EKDKPD YIENGI
 15223700.p DGKNSYSTNLAYPPPEYLR SESVVFSPVVLLDLMSC KHIPPSHAVG T QKONQVNLMDSLSECNYE BDDAAVFLDQKCLIN NNEPE QGDISSVITLQQ
 15240884.p EGKISYSTNLAYPPPEYLR GTVTEESVVFSPVVLLDLMSC RHIPPNAHALD L FR EKDKPD GKNYLVLLMDSLDQFSDPRTLIRLA EKDKPD
 15232611.p EGKSYSTNLAYPPPEYLR GTVTEESVVFSPVVLLDLMSC RHIPPNAHALD L FR EKDKPD GKNYLVLLMDSLDQFSDPRTLIRLA EKDKPD
 22327962.p RDGKSYSTNLAYPPPEYLT CRVTEESVVFSPVVLLDLMSC KHIPPSHALD L IRGKNNQVLLDSLECKYSTEATLVDLAKCLO EAREPN VKLSLTVSLLQK
 AK072216.q RDGKSYSTNLAYPPPEYLT CRVTEESVVFSPVVLLDLMSC KHIPPSHALD L DRNFMNMDLSLSECQFNEGTLVRLA EKDKPD LKSVSLLDQK
 15222446.p RDGKSYSTNLAYPPPEYLT CRVTEESVMYSYCILLDLMSC KHIPPSHALD L DRNFMNMDLSLSECQFNEGTLVRLA EKDKPD PFKSLVTAMISLQK
 15237604.p RDGKSYSTNLAYPPPEYLT CRVTEESVVIYSCILLDLMSC KHIPPSHALD L DRNFMNMDLSLSECQFNEGTLVRLA EKDKPD PKSLVSMALISLQK
 AK101506.q RDGKSYSTNLAYPPPEYMT CRVTEESVVIYSCILLDLMSC KHIPPSHALD L DRNFMNMDLSLSECQFNEGTLVRLA EKDKPD NNEPE
 15223469.p RDGKSYSTNLAYPPPEYLT CRVTEESVVIYSCILLDLMSC KHIPPSHALD L DRNFMNMDLSLSECQFNEGTLVRLA EKDKPD NNEPE
 22328189.p RDGKSYSTNLAYPPPEYLT CRVTEESVVIYSCILLDLMSC KHIPPSHALD L DRNFMNMDLSLSECQFNEGTLVRLA EKDKPD NNEPE
 AK073169.q TDGKSHVSTRVMGTGYAAPPEYLT CRLTAKSDVYVSFVVVLELLSG RRALDKNRP T GEONLVDWAPYD G HKRKLFVLDLFLQEGYHVGAQVIALAGECYSY EAREPN MEQCVVAVLELQD
 AK069546.q TDGKSHVSTRVMGTGYAAPPEYLT CRLTAKSDVYVSFVVVLELLSG RRALDKNRP GEONLVDWAPYD G SRRKLFVLDLFLQEGYHVGAQVIALAGECYSY EAREPN MHOVVALELQD
 AK102905.q SODKSHVSTRVMGTGYAAPPEYLT CRLTAKSDVYVSFVVVLELLSG RRALDKNRP GOONLVDWAPYD G NKRVKQVLLDLSLSECNYE BDDAAVFLDQKCLIN DARCPG MDQVVALELQD
 18398350.p SASQSHITTRVMGTGYAAPPEYLT CRLTAKSDVYVSFVVVLELLSG RRALDKNRP GOONLVDWAPYD G EKDKPD GKNYLVLLMDSLDQFSDPRTLIRLA EKDKPD
 22327062.p DELVYIGSNSVAPRYQVPPREYIIS CMSNMAADVSVFVVVLELLSG LKGKDLYISAK REIKNKYVNIW EKDKPD EMLPDKNSYLPOMGKMCB EKDKPD
 15239047.p LEESVTTAACRIVTYVPEYVIS CRLTAKSDVYVSFVVVLELLSG RRALDKNRP GOONLVDWAPYD G EKDKPD DQSKTREIDPLGNDYVPLNAATDMGKCLIN EKDKPD
 15239043.p RDGKSYSTNLAYPPPEYLT CRLTAKSDVYVSFVVVLELLSG RRALDKNRP GOONLVDWAPYD G EKDKPD PDNQYKEEIDPLGSDYSAANATDMGKCLIN EKDKPD
 30699159.p INGFVSHVSTRVMGTGYAAPPEYLT CRLTAKSDVYVSFVVVLELLSG RRALDKNRP GOONLVDWAPYD G EKDKPD QKKVQKMDMFLLLVATKABHICRCEA EKDKPD
 45360017.q VAGRSHVSTRVMGTGYAAPPEYLT CRLTAKSDVYVSFVVVLELLSG RRALDKNRP GOONLVDWAPYD G EKDKPD GKKLQAGLMDPLFACDYPKAARAAKLA EKDKPD
 30690422.p ADEKSHVSTRVMGTGYAAPPEYLT CRLTAKSDVYVSFVVVLELLSG RRALDKNRP GOESLVDWLREPEIS EKDKPD NGRVQKQIMDKQIKCQYTTKVAPEIATRTE EKDKPD
 AK069558.q DGGLSHVSTRVMGTGYAAPPEYLT CRLTAKSDVYVSFVVVLELLSG RRALDKNRP GRKYLWMAKPLA EKDKPD DRKKSRSPLQMDLQECYQHRSICALAATV EKDKPD
 83524418.p TAGESHVSTRVMGTGYAAPPEYLT CRLTAKSDVYVSFVVVLELLSG RRALDKNRP GOONLVDWAPYD G EKDKPD DRKQKARLMDPLFACDYPKAARAAKLA EKDKPD
 83510160.q TGSNSHVSTRVMGTGYAAPPEYLT CRLTAKSDVYVSFVVVLELLSG RRALDKNRP GOONLVDWAPYD G EKDKPD DRKQKARLMDPLFACDYPKAARAAKLA EKDKPD
 42610023.p AGGSNSHVSTRVMGTGYAAPPEYLT CRLTAKSDVYVSFVVVLELLSG RRALDKNRP GOONLVDWAPYD G EKDKPD DRKQKARLMDPLFACDYPKAARAAKLA EKDKPD
 AK102665.p DRAGGHVSTRVMGTGYAAPPEYLT CRLTAKSDVYVSFVVVLELLSG RRALDKNRP GOONLVDWAPYD G EKDKPD DRKQKARLMDPLFACDYPKAARAAKLA EKDKPD
 30694859.p DKAGGHVSTRVMGTGYAAPPEYLT CRLTAKSDVYVSFVVVLELLSG RRALDKNRP GOONLVDWAPYD G EKDKPD DRKQVVDIMDPLECOYSTRQVVAIAAMCV EKDKPD
 AK106842.q NKANGVHTTRVMGTGYAAPPEYAST CRLTAKSDVYVSFVVVLELLSG RRALDKNRP GOONLVDWAPYD G EKDKPD DRKQVVDIMDPLECOYSTRQVVAIAAMCV EKDKPD
 15221910.p DKLNGEISTRVMGTGYAAPPEYAST CRLTAKSDVYVSFVVVLELLSG RRALDKNRP GOONLVDWAPYD G EKDKPD DRKQVVDIMDPLECOYSTRQVVAIAAMCV EKDKPD
 15220195.p EDLLDGKELIFFRFGSILTYMPNQMLKfrfocnhLIS CQVTFDNDVFSVVVLELLSG CKKVEPKPSSE FESIVTAWVPKDS EKDKPD DRKQVVDILDPKIGTMDLKLYVAWAIVLVCOP EKDKPD
 AK107192.q SVNGKCSVLSKGTGYAAPPEYLLD CQLTAKSDVYAFVVVLELLSG RRALDKNRP GOONLVDWAPYD G EKDKPD DRKQVVDILDPKIGTMDLKLYVAWAIVLVCOP EKDKPD
 24950003.q NEKGSLKUSGTGYAAPPEYLLD CQLTAKSDVYAFVVVLELLSG RRALDKNRP GOONLVDWAPYD G EKDKPD DRKQVVDILDPKIGTMDLKLYVAWAIVLVCOP EKDKPD
 15224692.p EHOKNNKUKSGTGYAAPPEYLLD CQLTAKSDVYAFVVVLELLSG RRALDKNRP GOONLVDWAPYD G EKDKPD DRKQVVDILDPKIGTMDLKLYVAWAIVLVCOP EKDKPD
 30683447.p PKNNKUKLGSCTGYAAPPEYLLN CQLTAKSDVYAFVVVLELLSG RRALDKNRP GOONLVDWAPYD G EKDKPD DRKQVVDILDPKIGTMDLKLYVAWAIVLVCOP EKDKPD
 AK064847.q NHNKAQDKLPSCTGYAAPPEYLLD CQLTAKSDVYAFVVVLELLSG RRALDKNRP GOONLVDWAPYD G EKDKPD DRKQVVDILDPKIGTMDLKLYVAWAIVLVCOP EKDKPD
 15227478.p DTAARIHSTRVLMGTGYAAPYAT CQINQKSDVYVSFVVVLELLSG RQCVDVDITMPKR QOSLIVWATPDRS EKDKPD DRKQVVDILDPKIGTMDLKLYVAWAIVLVCOP EKDKPD
 AK072522.p DTAARIHSTRVLMGTGYAAPYAT CQINQKSDVYVSFVVVLELLSG RQCVDVDITMPKR QOSLIVWATPDRS EKDKPD DRKQVVDILDPKIGTMDLKLYVAWAIVLVCOP EKDKPD
 83601093.p DGAARIHSTRVLMGTGYAAPYAT CQINQKSDVYVSFVVVLELLSG RQCVDVDITMPKR QOSLIVWATPDRS EKDKPD DRKQVVDILDPKIGTMDLKLYVAWAIVLVCOP EKDKPD
 36060005.p DMAARIHSTRVLMGTGYAAPYAT CQINQKSDVYVSFVVVLELLSG RQCVDVDITMPKR QOSLIVWATPDRS EKDKPD DRKQVVDILDPKIGTMDLKLYVAWAIVLVCOP EKDKPD
 28230018.p DMAARIHSTRVLMGTGYAAPYAT CQINQKSDVYVSFVVVLELLSG RQCVDVDITMPKR QOSLIVWATPDRS EKDKPD DRKQVVDILDPKIGTMDLKLYVAWAIVLVCOP EKDKPD
 AK067164.p DMAARIHSTRVLMGTGYAAPYAT CQINQKSDVYVSFVVVLELLSG RQCVDVDITMPKR QOSLIVWATPDRS EKDKPD DRKQVVDILDPKIGTMDLKLYVAWAIVLVCOP EKDKPD
 18406188.p DMAARIHSTRVLMGTGYAAPYAT CQINQKSDVYVSFVVVLELLSG RQCVDVDITMPKR QOSLIVWATPDRS EKDKPD DRKQVVDILDPKIGTMDLKLYVAWAIVLVCOP EKDKPD
 30694970.p DMAARIHSTRVLMGTGYAAPYAT CQINQKSDVYVSFVVVLELLSG RQCVDVDITMPKR QOSLIVWATPDRS EKDKPD DRKQVVDILDPKIGTMDLKLYVAWAIVLVCOP EKDKPD
 15222170.p DMAARIHSTRVLMGTGYAAPYAT CQINQKSDVYVSFVVVLELLSG RQCVDVDITMPKR QOSLIVWATPDRS EKDKPD DRKQVVDILDPKIGTMDLKLYVAWAIVLVCOP EKDKPD
 15224557.p DMAARIHSTRVLMGTGYAAPYAT CQINQKSDVYVSFVVVLELLSG RQCVDVDITMPKR QOSLIVWATPDRS EKDKPD DRKQVVDILDPKIGTMDLKLYVAWAIVLVCOP EKDKPD
 15224556.p DMAARIHSTRVLMGTGYAAPYAT CQINQKSDVYVSFVVVLELLSG RQCVDVDITMPKR QOSLIVWATPDRS EKDKPD DRKQVVDILDPKIGTMDLKLYVAWAIVLVCOP EKDKPD
 AK064374.q VEDYDYSYEVVQIFREYEAPEYAT C C EKDKPD DRKQVVDILDPKIGTMDLKLYVAWAIVLVCOP EKDKPD HAFLRLH
 AK065231.q DMAARIHSTRVLMGTGYAAPYAT CQINQKSDVYVSFVVVLELLSG RQCVDVDITMPKR QOSLIVWATPDRS EKDKPD DRKQVVDILDPKIGTMDLKLYVAWAIVLVCOP EKDKPD
 AK066258.q DMAARIHSTRVLMGTGYAAPYAT CQINQKSDVYVSFVVVLELLSG RQCVDVDITMPKR QOSLIVWATPDRS EKDKPD DRKQVVDILDPKIGTMDLKLYVAWAIVLVCOP EKDKPD
 15226492.p DMAARIHSTRVLMGTGYAAPYAT CQINQKSDVYVSFVVVLELLSG RQCVDVDITMPKR QOSLIVWATPDRS EKDKPD DRKQVVDILDPKIGTMDLKLYVAWAIVLVCOP EKDKPD
 30690586.p DMAARIHSTRVLMGTGYAAPYAT CQINQKSDVYVSFVVVLELLSG RQCVDVDITMPKR QOSLIVWATPDRS EKDKPD DRKQVVDILDPKIGTMDLKLYVAWAIVLVCOP EKDKPD
 15228711.p DMAARIHSTRVLMGTGYAAPYAT CQINQKSDVYVSFVVVLELLSG RQCVDVDITMPKR QOSLIVWATPDRS EKDKPD DRKQVVDILDPKIGTMDLKLYVAWAIVLVCOP EKDKPD
 15221113.p NMAGRIECSRMLGASRSCPCHEAT CQINQKSDVYVSFVVVLELLSG RQCVDVDITMPKR QOSLIVWATPDRS EKDKPD DRKQVVDILDPKIGTMDLKLYVAWAIVLVCOP EKDKPD
 15221111.p DMAARIHSTRVLMGTGYAAPYAT CQINQKSDVYVSFVVVLELLSG RQCVDVDITMPKR QOSLIVWATPDRS EKDKPD DRKQVVDILDPKIGTMDLKLYVAWAIVLVCOP EKDKPD
 22331138.p DMAARIHSTRVLMGTGYAAPYAT CQINQKSDVYVSFVVVLELLSG RQCVDVDITMPKR QOSLIVWATPDRS EKDKPD DRKQVVDILDPKIGTMDLKLYVAWAIVLVCOP EKDKPD
 15234728.p NTERQVSTOVVGSCTGYAAPPEFAS CQINQKSDVYVSFVVVLELLSG RQCVDVDITMPKR QOSLIVWATPDRS EKDKPD DRKQVVDILDPKIGTMDLKLYVAWAIVLVCOP EKDKPD
 63720018.q NTERQVSTEVVGSCTGYAAPPEFAS CQINQKSDVYVSFVVVLELLSG RQCVDVDITMPKR QOSLIVWATPDRS EKDKPD DRKQVVDILDPKIGTMDLKLYVAWAIVLVCOP EKDKPD
 49770005.q NPERVSTEVVGSCTGYAAPPEFAS CQINQKSDVYVSFVVVLELLSG RQCVDVDITMPKR QOSLIVWATPDRS EKDKPD DRKQVVDILDPKIGTMDLKLYVAWAIVLVCOP EKDKPD
 15236294.p SGSVSOLSCQSLAAAYCYAAPPEFD CQINQKSDVYVSFVVVLELLSG RQCVDVDITMPKR QOSLIVWATPDRS EKDKPD DRKQVVDILDPKIGTMDLKLYVAWAIVLVCOP EKDKPD
 18399502.p SGAVSOLSCQSLAAAYCYAAPPEFY CQINQKSDVYVSFVVVLELLSG RQCVDVDITMPKR QOSLIVWATPDRS EKDKPD DRKQVVDILDPKIGTMDLKLYVAWAIVLVCOP EKDKPD
 30682076.p ERPTSQMACYAAPPEFY CQINQKSDVYVSFVVVLELLSG RQCVDVDITMPKR QOSLIVWATPDRS EKDKPD DRKQVVDILDPKIGTMDLKLYVAWAIVLVCOP EKDKPD
 73820099.p SGLDLQSECWLDALSPEPPAAA CQINQKSDVYVSFVVVLELLSG RQCVDVDITMPKR QOSLIVWATPDRS EKDKPD DRKQVVDILDPKIGTMDLKLYVAWAIVLVCOP EKDKPD
 83553602.p SRVSOLSCQSLTFLHYAAPPEFAS CQINQKSDVYVSFVVVLELLSG RQCVDVDITMPKR QOSLIVWATPDRS EKDKPD DRKQVVDILDPKIGTMDLKLYVAWAIVLVCOP EKDKPD
 61580015.p SSSVNTADPMESLLNLYPPPEFAS CQINQKSDVYVSFVVVLELLSG RQCVDVDITMPKR QOSLIVWATPDRS EKDKPD DRKQVVDILDPKIGTMDLKLYVAWAIVLVCOP EKDKPD
 AK063386.p SGSVSOLSCQSLAAAYCYAAPPEFD CQINQKSDVYVSFVVVLELLSG RQCVDVDITMPKR QOSLIVWATPDRS EKDKPD DRKQVVDILDPKIGTMDLKLYVAWAIVLVCOP EKDKPD
 83554054.p NRECVQSEDEDCRPAPEVTS CQINQKSDVYVSFVVVLELLSG RQCVDVDITMPKR QOSLIVWATPDRS EKDKPD DRKQVVDILDPKIGTMDLKLYVAWAIVLVCOP EKDKPD
 67220017.p NOEQQEDSENCRPAPEVTS CQINQKSDVYVSFVVVLELLSG RQCVDVDITMPKR QOSLIVWATPDRS EKDKPD DRKQVVDILDPKIGTMDLKLYVAWAIVLVCOP EKDKPD

15240178.p TSNSVKLRA_EIAIQNQG_CYIAP_HGQP_R GSSCTKSDT_IYAL_VVILLELLTG RKA_FDSSR_PR GEOLLYVW_ASTRH_D DRRS_EQ_MIDGG_IAGTF_SSRVAS_SYAD_AISL_CTQ_A EKEFRPP_R VSEIV_EAL_ALTALI_Q
29420019.q -FVS_AITRD_DSE_ANS_GKY_VAP_BSL_TP_R ATD_SKADI_SFS_VVILLELLTG OKAF_DSSR_PO NECD_ELV_DWS_PH_D NLD_SSP_ERT_IDP_HTA_SMP_PON_ILS_CL_NH_ILLC_K S_EFR_R P_MTV_ITD_LLLV_Q
15220928.p _CANELL_NQT_DCG_CY_VAP_BSL_TP_R QYV_LSKD_IY_SFS_VVILLELLTG R_RPF_DSTR_R SEOS_LVR_MAT_PODH D_DDA_LAK_MVD_PALK_GLY_PV_KL_SPL_RFA_DVIAL_CV_P M_SEV_VQ_AL_VLV_Q
30683104.p _CANELL_NND_CCG_CY_VAP_BTS_M QYV_LSKD_IY_SFS_VVILLELLTG R_RPF_DSTR_R SEOS_LVR_MAT_PODH D_DDA_LAK_MVD_PALK_GLY_PV_KL_SPL_RFA_DVIAL_CV_P M_SEV_VQ_AL_VLV_Q
AK100621.q SDAE_FQAAQ_SGC_CTAPE_VD_M T QYV_LSKD_IY_SFS_VVILLELLTG R_RPF_DSTR_R SEOS_LVR_MAT_PODH D_DDA_LAK_MVD_PALK_GLY_PV_KL_SPL_RFA_DVIAL_CV_P E_EFR_R P_MSEV_VQ_AL_VLV_Q
40960016.q DSEFOAS_DQG_CGY_VAP_BCS_R T QYV_LSKD_IY_SFS_VVILLELLTG R_RPF_DSTR_R TEOS_LVR_MAT_PODH D_DDA_LAK_MVD_PALK_GLY_PV_KL_SPL_RFA_DVIAL_CV_P M_SEV_VQ_AL_VLV_Q
15219262.p VS_IK_CSQL_GCG_CY_VAP_BCS_R T SAT_FKSD_VY_SFS_VVILLELLTG R_RPF_DSTR_R P_RSL_VRV_MAT_PODH D_DDA_LAK_MVD_PALK_GLY_PV_KL_SPL_RFA_DVIAL_CV_P E_EFR_R P_MSEV_VQ_AL_VLV_Q
44050018.q EDASENL_NLG_CGY_VAP_BCS_R T SAYM_KSD_VY_SFS_VVILLELLTG R_RPF_DSTR_R TECD_GDS_SKK_R T E_PSL_VRV_MAT_PODH D_DDA_LAK_MVD_PALK_GLY_PV_KL_SPL_RFA_DVIAL_CV_P E_EFR_R P_MSEV_VQ_AL_RLC_V
18399852.p HX_RTS_NLG_CGY_VAP_BCT_D T SAT_FKSD_VY_SFS_VVILLELLTG R_RPF_DSTR_R K_RPDY_GGR_K T AE_SVL_VW_APK_D K_RPDY_GGR_K T E_GFR_R P_MVS_NVE_ALR_LLV_V
AK061932.q EGCT_NLSTR_MG_CGY_VAP_BYANT_R T CH_LUV_KSD_VY_SFS_VVILLELLTG R_RPF_DMS_PPSG_R Q_NLV_VW_APK_D K_RPDY_GGR_K T E_AS_OPT_R M_GEV_VQ_AL_SLG_V
30679031.p ECRGNH_NLSTR_MG_CGY_VAP_BYANT_R T CH_LUV_KSD_VY_SFS_VVILLELLTG R_RPF_DMS_PPSG_R Q_NLV_VW_APK_D K_RPDY_GGR_K T E_AS_OPT_R M_GEV_VQ_AL_SLG_V
AK102246.q NG_COP_ISTR_MG_CGY_VAP_BYANT_R T CH_LUV_KSD_VY_SFS_VVILLELLTG R_RPF_DMS_PPSG_R Q_NLV_VW_APK_D K_RPDY_GGR_K T E_AS_OPT_R M_GEV_VQ_AL_SLG_V
30680947.p EGSCH_NLSTR_MG_CGY_VAP_BYANT_R T CH_LUV_KSD_VY_SFS_VVILLELLTG R_RPF_DMS_PPSG_R Q_NLV_VW_APK_D K_RPDY_GGR_K T E_AS_OPT_R M_GEV_VQ_AL_SLG_V
AK065353.q GE_NH_CISTR_MG_CGY_VAP_BYANT_R T CH_LUV_KSD_VY_SFS_VVILLELLTG R_RPF_DMS_PPSG_R Q_NLV_VW_APK_D K_RPDY_GGR_K T E_AS_OPT_R M_GEV_VQ_AL_SLG_V
22327898.p DDEDNNR_HISTR_MG_CGY_VAP_BYANT_R T CH_LUV_KSD_VY_SFS_VVILLELLTG R_RPF_DMS_PPSG_R Q_NLV_VW_APK_D K_RPDY_GGR_K T E_AS_OPT_R M_GEV_VQ_AL_SLG_V
AK105501.q GE_NH_CISTR_MG_CGY_VAP_BYANT_R T CH_LUV_KSD_VY_SFS_VVILLELLTG R_RPF_DMS_PPSG_R Q_NLV_VW_APK_D K_RPDY_GGR_K T E_AS_OPT_R M_GEV_VQ_AL_SLG_V
AK109583.p D_CQ_DQ_EAPMD_R R L_IC_IC_I C_I V_TW
81230027.q QKHEKAP_RINNK_SFF_CHD_SSED_K QAD_IQ_CNT_FAF_VVILLE_ISC_R RLP_CK_DKG_R YLI_DW_VR_HST_ILS_R LSH_C DKEAIKY_C LQ_CTEE
30696848.p -LAR_ESKN_LRNI_SSSQ_GCF_VLP_NMP_S RY_EVS_CNIYAF_IVILLE_ISC_R RP_CY_DK_DK_R FLIE_EW_AK_FFL_EPE_R DPT_N N
15237577.p VR_ESKN_LKN*i*cne_AGA_CIV_NPM_AHC RD_MQ_CQ_NIX_FSC_IVILLE_ISC_R RP_CY_DC_RSC_R L_VEW_ERE_KN_IGA_PDV_R D_ONE K_DK_NK_L
33370012.p -MAAAAAPAM_D R L_IC_IC_I C_I V_TW_EES_VH_VY_GM_LLE_MMA_G RLA_ESE_GGL_R V_QG_VAA_ALL_R G
1889009.q EN_E K_EDE_KE_SEA_D E_HT_T K_DD_EQ_EV_VVILLE_ISC_R RP_CY_DSE_DRL_R L_VW_ASY_DCK_R L_LVA_HRY_LGD_K D_RRP_S M_AD_VA_RIR_ETTA
47310011.p KEDEK_ESE_ASD_D E_HT_T K_DD_EQ_EV_VVILLE_ISC_R RP_CY_DDD_GYL L_LVA_HRY_LGD_K D_MRP_S VAE_VTA_MOE_LITG
AK066380.p KEP_EN_AT_SN_SSS_DDL_ENT_VR R KY_EHN_VILLE_MLT_G RLP_CY_DSEEDGP_R LER_EAS_RY_FDG_ETR_L AET_EHP_SIG_SSEE_AAR_ICB_VVR_SRC_ID_P D_KRP_T M_AE_VARM_ERT_ITA
AK069112.p KGE_FNS_EAP_DTE_VVM_IDS_M R VE_HY_VILLE_ISC_R RP_CY_DSE_DGP_R LEH_AW_SGY_FEG_ECK_M L_AEV_VW_AGR_MIC_ITS_R DRN_ISL_DDT_LTK_HKEN_ILE_HTC_IHO_CI_S D_KK_PG M_RE_VTT_LRL_ERT_ITA
AK059169.p IS_GK_GM_EKN_DDI_DDH_EPE_V R ADPA_CN_VS_FILL_MLE_ISC_R RP_CY_DSE_DGP_R SLAN_LAME_CI_KD_I S_GRI_AST_LDS_VLS_HKE_NDI_DDV_CHC_IS_R D_TK_PG M_RE_VTT_LRL_ERT_ITA
AK062165.p V_SD_GCK_KS_ANN_DDH_EPE_V R ARL_EAC_NV_SF_CILL_MLE_ISC_R RP_CY_DSE_DGP_R SLAN_LALG_CI_KD_I S_GRI_AST_LDS_VLS_HKE_NDI_DDV_CHC_IS_R D_TK_PG M_RE_VTT_LRL_ERT_ITA
AK100525.p AIKAK_ETR_DSS_SCE_CPP_R R DI_ASP_ELL_MLE_ISC_R RP_CY_DSE_DGP_R K_LPEADD_R K_SCN_VAA_EY_LK_G K_LPEADD_R S_KCN_VAA_EY_LK_G D_SDR_P M_RA_TTR_RQ_LAO_N M_KV_VQ_LCV_NIN
15242513.p SKPR_CML_SDD_DSL_PLL_MPE_P R ETN_VVS_FEV_MLE_ISC_R RP_CY_DSE_DGP_R K_LSD_EEE_R GS_LHK_VW_ASY_KLEN_R D_DLGEM_IDS_LSL_TFE_DEE_LBL_VCD_P D_EFR_R P_MKD_AEL_CLK_VVIN
30684487.p LNPKR_VVS_DDE_POT_LLL_MPE_P R EAN_VVS_FEV_MLE_ISC_R RP_CY_DSE_DGP_R L_RLP_CY_DASK_VYLE_K D_DLGEM_IDS_LSL_TFE_DEE_LBL_VCD_P D_EFR_R P_MKD_AEL_CLK_VVIN
30697094.p FP_CKEG_SSS_NKL_DNE_P R -SL_DPT_HIN_VFN_E PV_CILLE_ISC_R RP_CY_DPD_R M_LDE_P M_PTR_DPT_LTK_FQ_EON_VVR_CCL_P YSD_DPT_R M_RE_VV_VKL_RBT_G
30697092.p FP_CKEG_SSS_NKL_DNE_P R -SL_DPT_HIN_VFN_E PV_CILLE_ISC_R RP_CY_DPD_R M_LDE_P M_PTR_DPT_LTK_FQ_EON_VVR_CCL_P YSD_DPT_R M_RE_VV_VKL_RBT_G
15240717.p P_DLP_P R QET_KW_DPT_LTK_FQ_EON_VVR_C CL_P L_LVA_HRY_LGD_K D_RRP_S REMVD_OPT_ESP_HDE_IGE_VEN_CTC_R D_KRP_T M_KE_VV_VKL_RBT_G
15228810.p GP_CEST_ESS_NTA_DLD_TN_ISP_R R P_DPN_VVS_FILL_MLE_ISC_R RP_CY_DES_P K_LPE_DGL_VFL_RGT_L SIDT_GLA_EFL_VGT_R D_DLGEM_IDS_LSL_TFE_DEE_LBL_VCD_P D_EFR_R P_MKD_AEL_CLK_VVIN
18405327.p TETIN_NNN_IVID_HIS_S R AEN_EPD_NIX_SF_LLL_MHE_MIT_G K_LPE_DSV_N K_LPE_DSV_N L_DEA_HR_LD_RIP_PTY_E L_VW_ASY_DCK_R L_LVA_HRY_LGD_K D_RRP_S M_KE_VV_VKL_RBT_G
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AK109788.p nagdg_DDE_ERC_VTACT_G YMD_PYY_R R QBL_DKS_VY_SFS_VVILLE_ISC_R RP_CY_DK_DPS_R L_D L_VD_V V_TW_E A_E N_W W_E E_E R_E S_R C_R K_P S_R M_V E_VV_E S_L E_A L_A B_A C_I M_P
AK109954.q TAT_PPA_AST_TST_GT_C YMD_PYY_R R QEL_DPA_SY_EEG_GQ_D K_RPE_DGT_R E_AGGV_CRM_DGR_FPA_FRG_ENE_ABS_VVAR_ATC_R R_CRP_S M_SEV_VAB_ALE_VAV_ATC_R D_KRP_T M_RE_VV_VLR_ERT_G
15228781.p GKD_HNP_DY_CTR_MG_CGY_VAP_BY_R R QDN_TPT_HIN_VFN_E PV_CILLE_ISC_R RP_CY_DK_DPS_R L_D L_VD_V V_TW_E A_E N_W W_E E_E R_E S_R C_R K_P S_R M_V E_VV_E S_L E_A L_A B_A C_I M_P
83583593.q E_EE_KA_D T_DV_IG_CGY_VAP_BY_R R RT_NLM_DTD_VVS_FEV_MLE_ISC_R RP_CY_DK_DPS_R L_D L_VD_V V_TW_E A_E N_W W_E E_E R_E S_R C_R K_P S_R M_V E_VV_E S_L E_A L_A B_A C_I M_P
51520044.q ERD_SNS_S R L_IC_IC_I C_I V_TW_E A_E N_W W_E E_E R_E S_R C_R K_P S_R M_V E_VV_E S_L E_A L_A B_A C_I M_P
15237244.p GDK_HIR_SPA_GTC_CGY_VAP_BY_R R ENL_MK_DVS_FY_SFS_VVILLE_ISC_R RP_CY_DK_DPS_R L_D L_VD_V V_TW_E A_E N_W W_E E_E R_E S_R C_R K_P S_R M_V E_VV_E S_L E_A L_A B_A C_I M_P
AK105254.q Gd_AAA_NAA_AT_EPA_GTC_CGY_VAP_BY_R R ESL_DKT_DVS_FY_SFS_VVILLE_ISC_R RP_CY_DK_DPS_R L_D L_VD_V V_TW_E A_E N_W W_E E_E R_E S_R C_R K_P S_R M_V E_VV_E S_L E_A L_A B_A C_I M_P
15218652.p VD_EER_IAK_S D_EPA_GTC_CGY_VAP_BY_R R ADD_AKS_DVS_FY_SFS_VVILLE_ISC_R RP_CY_DK_DPS_R L_D L_VD_V V_TW_E A_E N_W W_E E_E R_E S_R C_R K_P S_R M_V E_VV_E S_L E_A L_A B_A C_I M_P
15231097.p VDD_QKV_TST_MG_CGY_VAP_BY_R R DR_LKT_DVS_FY_SFS_VVILLE_ISC_R RP_CY_DK_DPS_R L_D L_VD_V V_TW_E A_E N_W W_E E_E R_E S_R C_R K_P S_R M_V E_VV_E S<sub

40550017.q -VDKDFITMFVVGSGCYIDPVFHKTG -HL TQKSDVYSFVVILLELI CR -RPTIYGEN -CSLIIIEFQNAYDQEENSG
 83551361.q -VDKDFITMFVVGSGCYIDPVFHKTG -HL TQKSDVYSFVVILLELI SR -RPTIYGEN -CSLIIIEFQSYDKENSG
 41540013.q -VDKDFITMFVVGSGCYIDPVFHKTG -HL TQKSDVYSFVVILLELI SR -RPTIYGEN -CSLIIIEFQSKYDKENSG
 40560005.q -VDKDFITMFVVGSGCYIDPVFHKTG -RL TQKSDVYSFVVILLELI SR -RPTIYGEN -FSLIIIEFQKYADEVHSG
 AK105108.q -NDSSAHDIDK YCDSL -RL TQKSDVYSFVVILLELI TR -RPTIYDAN -CSLLIDFQKAYEQEONS
 49860013.q -ANGQHFTNNIIGS CIVDPAFCMNG -KL KTDVVFVVLTR -KNEFAYD -HEHFLVSQFLAAKADNS
 40520020.q -DKDNTTENMTCYDPIYYOEG -RL TQKSDVYSFIVVLELITR -KRCATIQA PA -E -GQE
 40520010.q -TDKHETVKCIGSGCYVDPYICREG -RL TQKSDVYSFIVVLELITR -KAASLAOA DAEG
 71850001.q -GGKFRHTNVKGSGSIDYMPHLFRDG -TQ SSKNDVYSPVVILLELITR -KRKEECKV -SLISSTEHDSCEGKRMK
 40510010.q -ADNTNSPDCIS R -RL TPKSDVYSFIVVLELITR -ILSTDINLTVNPT -NMCKNVRFRIQAFQKK
 71850017.q -GGLFRYLBMBGCBYDPLVYRDG -RL TPKSDVYSFIVVLELITR -KRVQDGVN LHSFQACANG
 71850014.q -GGI TRYTEENVCGSNDMPVLSAG -RV TPKSDIYSPVVILLELIS Q -KRKEKGGI
 AK102853.q -GGIIRWTSNVRGSIAHYMPHYREG -RV TQKSDVYSPVVILLELITR -KCMKEGGI
 83552926.q -MDNDEYTFEVGSGCYMPDVYCPCTG -RL SPKCDVYSPVVILLELITR -KKCIDDOSR -NLAMCFARSSRK
 48120021.q -MDNDEYTFEVGSGCYMPDVYCPCTG -RL SPKCDVYSPVVILLELITR -KKCIDDOSR -NLAMCFARSSRK
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 40600007.q -IDKHETKOCVGMCMYDPIYLSG -LL TQKSDVYSPVVILLELITR Q -KASS -GEDHIVYTTFLDAYTED
 58990029.q -VDKNQHDPKVIGOMSMDMPVYLQTG -LL TQKSDVYSPVVILLELIS KCATYSDDNN SLRNFLDAKEK
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 63240020.q -KTKRSVCADNCYDIPVYMTG -NF TQKSDVYSPVVILLELITR -RKAQYDCTS -LPIEEDDNRARN
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 19720008.q -TDEAQMTMVGCTCYLDPEYLYMTC -QL TEKSDVYSPVVILLELITR -KPLCLDGP -EEERSLARFVAANGER
 43620004.q -TDEAQFTLVGCTCYLDPEYLYMTC -KL TQKSDVYSPVVILLELITC -RKAFLNQAL -EEEQSHSHFLAASEN
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 53270013.q -SDKEQFTYMVGCTCYLDPEYLYMTC -QL TQKSDVYSPVVILLELITC -QVFLKLEG -AIORSLSSVFLSAKGN
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 83540631.q -TDEAQFTLVGCTCYLDPEYLYMTC -QL TQKSDVYSPVVILLELITC -KMAFNLLEG -ENEKSLLSPLCANKEG
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 56620005.q -INKSOLVILVGTGCTCYLDPEYLYMTC -LD TQKSDVYSPVVILLELITC -LIELITR -KVNFDNLAD -ENERSLAMRFLSAKEN
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 56620010.q -TDEAQFTLVGCTCYLDPEYLYMTC -QL TQKSDVYSPVVILLELITC -KRAFNLESP -EDEPSLAMRFLSAKEN
 83522737.q -MDEBIVLVAKGTVGCTCYLDPEYLYMTC -KL TQKSDVYSPVVILLELITC -KPKRCLVSV -FQDANKEG
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 54430013.q -ADGHDDVVKGTVGCTCYLDPEYLYRNF -EL TQKSDVYSPVVILLELITR -RPLPSKOKV -SLASVFOEANKEG
 54430006.q -ADGHDDVVKGTVGCTCYLDPEYLYRNF -EL TQKSDVYSPVVILLELITR -RPLPSKOKV -SLASVFOEANKEG
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 83522762.q -EKTQAVWKGTVGCTCYLDPEYLYMTC -QL TAKNDVYSPVVILLELITC -KPLPSKEK -TLMAMFQEMAMD
 54430017.q -EKTQAVWKGTVGCTCYLDPEYLYMTC -QL TAKNDVYSPVVILLELITC -KPLPSKEK -TLMAMFQEMAMD
 82730012.q -PNTQAVWKGTVGCTCYLDPEYLYMTC -QL TQKSDVYSPVVILLELITC -KPLPSKDR -SLIMLQFQEMAMD
 82730022.q -ENQAVWKGTVGCTCYLDPEYLYMTC -QL TQKSDVYSPVVILLELITC -KPLPSKDR -SLIMLQFQEMAMD
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 83522760.q -ESTPAVWKGTVGCTCYLDPEYLYMTC -QL TAKNDVYSPVVILLELITC -KPLPSKDR -SLIMLQFQEMAMD
 83522754.q -EKTQAVWKGTVGCTCYLDPEYLYMTC -QL TAQNDVYSPVVILLELITC -RPLPSKDR -SLIMLQFQEMAMD
 83525202.q -IDENYDVVKGTVGCTCYLDPEYLYS -RL TEKSDIYSPVVILLELITR -VTFVFSSET -SERASLASYFQPSRDN
 30530012.q -IDQNDVTTTKGTVGCTCYLDPEYLYRKS -RL TEKSDVYSPVVILLELITR -RPTSYIIS -EGNLTEQFILLVSED
 83591574.q -VDOQGFTVTVVKGTVGCTCYLDPEYLYYTG -RL TEKSDVYSPVVILLELITR -KCPFYSRSP -EGDSLVAHFTSLLADS
 24770015.q -AEQNTTIVVKGTVGCTCYLDPEYLYYTG -RL TEKSDVYSPVVILLELITR -KCPFYSRSP -EDDGLVSHFTTLLTRDN
 83573244.q -AEQNGVTIAKGTVGCTCYLDPEYLYYTG -RL TEKSDVYSPVVILLELITR -KCPFYSRSP -EDPSLVAHFTALLTHG
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 83573245.q -AEQNGVTIAKGTVGCTCYLDPEYLYYTG -RL TEKSDIYSPVVILLELITC -KCPFYSRSP -AEDESVALAHFTTLLAQ
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 83521928.q -INEQDPEVNAVKGTVGCTCYLDPEYLYTTS -QL NEKSDVYSPVVILLELITC -KCPFVTESS -GMKONLNYFLWEKKV
 83522734.q -NDQDPEVNAVKGTVGCTCYLDPEYLYTTS -RL NEKSDVYSPVVILLELITC -KCPFVTESS -GMKONLNYFLWEKKV
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 83110024.q -NDQDPEVNAVKGTVGCTCYLDPEYLYTTS -HL NEKSDVYSPVVILLELITC -KCPFVTESS -GTKKNLISYFLSEKGR
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48850017.Q - LDDQHVVTVMVGTCGTYLDPYYVYITG - QL TEKSDVYSFVVLVELLTR - KKIIFINDY - GTKONLSCFCFLQEQHQQ - VMEILDSQVMBEANREBIDEIVIAESCKT - KSEEERPT - MKVEVEMRLOELRT
15226452.P - RIDTS - QL TEKSDVYSFVVLVELLTR - KKIIFINDY - GAKOSLASHYFVEGHQQG - SLEIIDIISVLEBAHREIDIDIASTLEACIKL - RGGDPT - MKVEVEMRLOELRT
AK102659.Q - AAYYAPAY - DHD - VVINFQSHLLIELLIVTC - K - DRETTVTQALOKIRS - GKLEEBIDPSMFYKEQSVafreIGVADIAACQKIA - KGGDPT - MKVEVEMRLOELRT
27680022.Q - IDEHHWVHVIVGTCGTYLDPYYVYITG - QL TEKSDVYSFVVLVELLTR - KKIIFINCS - GEKONLCHYFLQEQPRDK - TTMDILDSQVBEASHRIDEMAVAECIKL - RGGDPT - MKVEVEMRLOELRT
AK102639.Q - IDEHHWVHVIVGTCGTYLDPYYVYITG - QL TEKSDVYSFVVLVELLTR - KKIIFINCP - GENONLGHCFLQHQH - TTMDILDSQVBEASHRIDEMAVAECIKL - RGGDPT - MKVEVEMRLOELRT
27680013.Q - IDEHHWVHVIVGTCGTYLDPYYVYITG - QL NEKSDVYVFVVLVELLTR - KKIIFINSI - GEKONLCHHFLQRQNN - TTSEIVDVQVLEBADQWEIDIDIAEIAEICRL - RGGDPT - MKVEVEMRLOELRT
41270019.Q - IDQHVVTVVHGVGTCGTYLDPYYVYITG - QL TEKSDVYSFVVLVELLTR - KKIIFINCL - GEQKNLCHCFLQEQPRDK - TTSEIVDVQVLEBADQWEIDIDIAEIAEICRL - RGGDPT - MKVEVEMRLOELRT
83524721.Q - SDHVVTVVHGVGTCGTYLDPYYVYITG - QL TEKSDVYSFVVLVELLTR - KKIIFISVPR - EESCNLAMYIVNLNER - RLGQEPTEPILAEAGEEE - IHAVALSVCNL - KEEEPV - MKVEVEMRLOELRT
53720019.Q - FDDHHVTVVHGVGTCGTYLDPYYVYITG - QL TEKSDVYSFVVLVELLTR - KKIIFISVPR - EESCNLAMYIVNLNER - RLGQEPTEPILAEAGEEE - IHAVALSVCNL - KEEEPV - MKVEVEMRLOELRT
53720022.Q - SNQHVVTVVHGVGTCGTYLDPYYVYITG - QL TEKSDVYSFVVLVELLTR - KKIIFISVPR - EESCNLAMYIVNLNER - RLGQEPTEPILAEAGEEE - IHAVALSVCNL - KEEEPV - MKVEVEMRLOELRT
53720023.Q - ENQHVVTVVHGVGTCGTYLDPYYVYITG - QL TEKSDVYSFVVLVELLTR - KKIIFISVPR - EESCNLAMYIVNLNER - QLEIVDSVSLVBEACTRKVVAVALARCRS - RGEERP - MKVEVEMRLOELRT
15230394.Q - EGETFVVKWVDRVPCGTYLDPYYVYITG - QL TEKSDVYSFVVLVELLTR - KKIIFISVPR - DESLBFEEFDK - VBNLRLISDRIEkfveegriFDMLDPK1le - RGDV - PK - MKVEVEMRLOELRT
15230398.P - KYHTNLKGTHGLSCLPVI - QL TEKSDVYSFVVLVELLTR - KKIIFISVPR - DESLBFEEFDK - VBNLRLISDRIEkfveegriFDMLDPK1le - RGDV - PK - MKVEVEMRLOELRT
15230364.Q - QGETFVKLGNCHGDDYMDDNYLIN - QL TEKSDVYSFVVLVELLTR - KKIIFISVPR - DESLBFEEFDK - VBNLRLISDRIEkfveegriFDMLDPK1le - RGDV - PK - MKVEVEMRLOELRT
18408777.P - PEGETFVQVQDYVATGTCGTYLDPYYVYITG - QL TEKSDVYSFVVLVELLTR - KKIIFISVPR - DESLBFEEFDK - VBNLRLISDRIEkfveegriFDMLDPK1le - RGDV - PK - MKVEVEMRLOELRT
15217888.P - EGETFVVRVDRVPCGTYLDPYYVYITG - QL TEKSDVYSFVVLVELLTR - KKIIFISVPR - DESLBFEEFDK - VBNLRLISDRIEkfveegriFDMLDPK1le - RGDV - PK - MKVEVEMRLOELRT
18408221.P - EGETFVVRVDRVPCGTYLDPYYVYITG - QL TEKSDVYSFVVLVELLTR - KKIIFISVPR - DESLBFEEFDK - VBNLRLISDRIEkfveegriFDMLDPK1le - RGDV - PK - MKVEVEMRLOELRT
18410796.P - EGETFVVRVDRVPCGTYLDPYYVYITG - QL TEKSDVYSFVVLVELLTR - KKIIFISVPR - DESLBFEEFDK - VBNLRLISDRIEkfveegriFDMLDPK1le - RGDV - PK - MKVEVEMRLOELRT
15230390.P - ECGKSRIEBCVGT - QL TEKSDVYSFVVLVELLTR - KKIIFISVPR - DESLBFEEFDK - VBNLRLISDRIEkfveegriFDMLDPK1le - RGDV - PK - MKVEVEMRLOELRT
22331843.P - EGKSRIEBCVGT - QL TEKSDVYSFVVLVELLTR - KKIIFISVPR - DESLBFEEFDK - VBNLRLISDRIEkfveegriFDMLDPK1le - RGDV - PK - MKVEVEMRLOELRT
15230388.P - EGKSRIEBCVGT - QL TEKSDVYSFVVLVELLTR - KKIIFISVPR - DESLBFEEFDK - VBNLRLISDRIEkfveegriFDMLDPK1le - RGDV - PK - MKVEVEMRLOELRT
15230374.P - EGEQGVNDMVCRTS - QL TEKSDVYSFVVLVELLTR - KKIIFISVPR - DESLBFEEFDK - VBNLRLISDRIEkfveegriFDMLDPK1le - RGDV - PK - MKVEVEMRLOELRT
15231248.P - EGEQGVNDMVCRTS - QL TEKSDVYSFVVLVELLTR - KKIIFISVPR - DESLBFEEFDK - VBNLRLISDRIEkfveegriFDMLDPK1le - RGDV - PK - MKVEVEMRLOELRT
15219181.P - IDDHHTTIVVHGVGTCGTYLDPYYVYITG - QL TEKSDVYSFVVLVELLTR - KKIIFISVPR - DESLBFEEFDK - VBNLRLISDRIEkfveegriFDMLDPK1le - RGDV - PK - MKVEVEMRLOELRT
30699443.Q - VDOHVVTVVHGVGTCGTYLDPYYVYITG - QL TEKSDVYSFVVLVELLTR - KKIIFISVPR - DESLBFEEFDK - VBNLRLISDRIEkfveegriFDMLDPK1le - RGDV - PK - MKVEVEMRLOELRT
15219445.P - VDOHVVTVVHGVGTCGTYLDPYYVYITG - QL TEKSDVYSFVVLVELLTR - KKIIFISVPR - DESLBFEEFDK - VBNLRLISDRIEkfveegriFDMLDPK1le - RGDV - PK - MKVEVEMRLOELRT
15219140.P - IDDHHTTIVVHGVGTCGTYLDPYYVYITG - QL TEKSDVYSFVVLVELLTR - KKIIFISVPR - DESLBFEEFDK - VBNLRLISDRIEkfveegriFDMLDPK1le - RGDV - PK - MKVEVEMRLOELRT
15219134.P - IDDHHTTIVVHGVGTCGTYLDPYYVYITG - QL TEKSDVYSFVVLVELLTR - KKIIFISVPR - DESLBFEEFDK - VBNLRLISDRIEkfveegriFDMLDPK1le - RGDV - PK - MKVEVEMRLOELRT
15219137.P - TDDHHHTTIVVHGVGTCGTYLDPYYVYITG - QL TEKSDVYSFVVLVELLTR - KKIIFISVPR - DESLBFEEFDK - VBNLRLISDRIEkfveegriFDMLDPK1le - RGDV - PK - MKVEVEMRLOELRT
15219143.P - IDDHHTTIVVHGVGTCGTYLDPYYVYITG - QL TEKSDVYSFVVLVELLTR - KKIIFISVPR - DESLBFEEFDK - VBNLRLISDRIEkfveegriFDMLDPK1le - RGDV - PK - MKVEVEMRLOELRT
15219132.P - IDDHHTTIVVHGVGTCGTYLDPYYVYITG - QL TEKSDVYSFVVLVELLTR - KKIIFISVPR - DESLBFEEFDK - VBNLRLISDRIEkfveegriFDMLDPK1le - RGDV - PK - MKVEVEMRLOELRT
15219130.P - IAQHHTTIVVHGVGTCGTYLDPYYVYITG - QL TEKSDVYSFVVLVELLTR - KKIIFISVPR - DESLBFEEFDK - VBNLRLISDRIEkfveegriFDMLDPK1le - RGDV - PK - MKVEVEMRLOELRT
15219447.Q - VDHHTHHTTIVVHGVGTCGTYLDPYYVYITG - QL TEKSDVYSFVVLVELLTR - KKIIFISVPR - DESLBFEEFDK - VBNLRLISDRIEkfveegriFDMLDPK1le - RGDV - PK - MKVEVEMRLOELRT
15222427.P - VDHHTHHTTIVVHGVGTCGTYLDPYYVYITG - QL TEKSDVYSFVVLVELLTR - KKIIFISVPR - DESLBFEEFDK - VBNLRLISDRIEkfveegriFDMLDPK1le - RGDV - PK - MKVEVEMRLOELRT
15223546.P - IDHHHTHHTTIVVHGVGTCGTYLDPYYVYITG - QL TEKSDVYSFVVLVELLTR - KKIIFISVPR - DESLBFEEFDK - VBNLRLISDRIEkfveegriFDMLDPK1le - RGDV - PK - MKVEVEMRLOELRT
15220882.P - IDHHHTHHTTIVVHGVGTCGTYLDPYYVYITG - QL TEKSDVYSFVVLVELLTR - KKIIFISVPR - DESLBFEEFDK - VBNLRLISDRIEkfveegriFDMLDPK1le - RGDV - PK - MKVEVEMRLOELRT
30688910.P - IDDHHTHHTTIVVHGVGTCGTYLDPYYVYITG - QL TEKSDVYSFVVLVELLTR - KKIIFISVPR - DESLBFEEFDK - VBNLRLISDRIEkfveegriFDMLDPK1le - RGDV - PK - MKVEVEMRLOELRT
22329045.P - IDDHHTHHTTIVVHGVGTCGTYLDPYYVYITG - QL TEKSDVYSFVVLVELLTR - KKIIFISVPR - DESLBFEEFDK - VBNLRLISDRIEkfveegriFDMLDPK1le - RGDV - PK - MKVEVEMRLOELRT
15218959.P - IDDHHTHHTTIVVHGVGTCGTYLDPYYVYITG - QL TEKSDVYSFVVLVELLTR - KKIIFISVPR - DESLBFEEFDK - VBNLRLISDRIEkfveegriFDMLDPK1le - RGDV - PK - MKVEVEMRLOELRT
18394970.P - MDKEELEDMMVQGTCGTYLDPYYVYITG - QL NEKSDVYSFVVLVELLTR - KKIIFISVPR - DESLBFEEFDK - VBNLRLISDRIEkfveegriFDMLDPK1le - RGDV - PK - MKVEVEMRLOELRT
15218171.P - MDKEELEDMMVQGTCGTYLDPYYVYITG - QL NEKSDVYSFVVLVELLTR - KKIIFISVPR - DESLBFEEFDK - VBNLRLISDRIEkfveegriFDMLDPK1le - RGDV - PK - MKVEVEMRLOELRT
15218170.P - MDQEQLMMTVMGTCGTYLDPYYVYITG - QL NEKSDVYSFVVLVELLTR - KKIIFISVPR - DESLBFEEFDK - VBNLRLISDRIEkfveegriFDMLDPK1le - RGDV - PK - MKVEVEMRLOELRT
15218167.P - MDKEELEDMMTVMGTCGTYLDPYYVYITG - QL NEKSDVYSFVVLVELLTR - KKIIFISVPR - DESLBFEEFDK - VBNLRLISDRIEkfveegriFDMLDPK1le - RGDV - PK - MKVEVEMRLOELRT
15230844.P - MDKFOLTTVVMGTCGTYLDPYYVYITG - QL NEKSDVYSFVVLVELLTR - KKIIFISVPR - DESLBFEEFDK - VBNLRLISDRIEkfveegriFDMLDPK1le - RGDV - PK - MKVEVEMRLOELRT
61820005.Q - QGLQHVVTVCACTGTCGTYLDPYYVYITG - QL TAKSDVYSFVVLVELLTR - KKIIFISVPR - DESLBFEEFDK - VBNLRLISDRIEkfveegriFDMLDPK1le - RGDV - PK - MKVEVEMRLOELRT
15241674.P - ETANNEHHTTIVVHGVGTCGTYLDPYYVYITG - QL TAKSDVYSFVVLVELLTR - KKIIFISVPR - DESLBFEEFDK - VBNLRLISDRIEkfveegriFDMLDPK1le - RGDV - PK - MKVEVEMRLOELRT
15232348.P - SDVHHTVTTCACTGTCGTYLDPYYVYITG - QL TAKSDVYSFVVLVELLTR - KKIIFISVPR - DESLBFEEFDK - VBNLRLISDRIEkfveegriFDMLDPK1le - RGDV - PK - MKVEVEMRLOELRT
15222572.P - SDVHHTVTTCACTGTCGTYLDPYYVYITG - QL TAKSDVYSFVVLVELLTR - KKIIFISVPR - DESLBFEEFDK - VBNLRLISDRIEkfveegriFDMLDPK1le - RGDV - PK - MKVEVEMRLOELRT
AK072170.Q - ADAHHTVTTCACTGTCGTYLDPYYVYITG - QL TAKSDVYSFVVLVELLTR - KKIIFISVPR - DESLBFEEFDK - VBNLRLISDRIEkfveegriFDMLDPK1le - RGDV - PK - MKVEVEMRLOELRT
83520118.P - FEVHHTVTTCACTGTCGTYLDPYYVYITG - QL TAKSDVYSFVVLVELLTR - KKIIFISVPR - DESLBFEEFDK - VBNLRLISDRIEkfveegriFDMLDPK1le - RGDV - PK - MKVEVEMRLOELRT
AK065470.Q - LEVHHTVTTCACTGTCGTYLDPYYVYITG - QL TAKSDVYSFVVLVELLTR - KKIIFISVPR - DESLBFEEFDK - VBNLRLISDRIEkfveegriFDMLDPK1le - RGDV - PK - MKVEVEMRLOELRT
83534240.Q - RDAHHTVTTCACTGTCGTYLDPYYVYITG - QL TAKSDVYSFVVLVELLTR - KKIIFISVPR - DESLBFEEFDK - VBNLRLISDRIEkfveegriFDMLDPK1le - RGDV - PK - MKVEVEMRLOELRT
AK066381.Q - LDVHHTVTTCACTGTCGTYLDPYYVYITG - QL TAKSDVYSFVVLVELLTR - KKIIFISVPR - DESLBFEEFDK - VBNLRLISDRIEkfveegriFDMLDPK1le - RGDV - PK - MKVEVEMRLOELRT
AK102164.Q - LDVHHTVTTCACTGTCGTYLDPYYVYITG - QL TAKSDVYSFVVLVELLTR - KKIIFISVPR - DESLBFEEFDK - VBNLRLISDRIEkfveegriFDMLDPK1le - RGDV - PK - MKVEVEMRLOELRT
15221764.P - MDQHHTVTTCACTGTCGTYLDPYYVYITG - QL SNKSDVYSFVVLVELLTR - KKIIFISVPR - DESLBFEEFDK - VBNLRLISDRIEkfveegriFDMLDPK1le - RGDV - PK - MKVEVEMRLOELRT
30697422.Q - MDQHHTVTTCACTGTCGTYLDPYYVYITG - QL NEKSDVYSFVVLVELLTR - KKIIFISVPR - DESLBFEEFDK - VBNLRLISDRIEkfveegriFDMLDPK1le - RGDV - PK - MKVEVEMRLOELRT
22327431.P - MDQHHTVTTCACTGTCGTYLDPYYVYITG - QL NEKSDVYSFVVLVELLTR - KKIIFISVPR - DESLBFEEFDK - VBNLRLISDRIEkfveegriFDMLDPK1le - RGDV - PK - MKVEVEMRLOELRT
67060018.Q - TGAGRELVVCCAPQGT - QYDVPYHDF - RL NEKSDVYSFVVLVELLTR - KKIIFISVPR - DESLBFEEFDK - VBNLRLISDRIEkfveegriFDMLDPK1le - RGDV - PK - MKVEVEMRLOELRT
15222495.Q - nSATSPYCPGPGT - QYDVPYHDF - RL TAKSDVYSFVVLVELLTR - KKIIFISVPR - DESLBFEEFDK - VBNLRLISDRIEkfveegriFDMLDPK1le - RGDV - PK - MKVEVEMRLOELRT
62820010.Q - LDQASLHHTVTTCACTGTCGTYLDPYYVYITG - QL SDKSDVYSFVVLVELLTR - KKIIFISVPR - DESLBFEEFDK - VBNLRLISDRIEkfveegriFDMLDPK1le - RGDV - PK - MKVEVEMRLOELRT
AK072425.Q - LDQASLHHTVTTCACTGTCGTYLDPYYVYITG - QL SDKSDVYSFVVLVELLTR - KKIIFISVPR - DESLBFEEFDK - VBNLRLISDRIEkfveegriFDMLDPK1le - RGDV - PK - MKVEVEMRLOELRT
AK101690.Q - TSVDSSHISTAPQGT - QYDVPYHDF - RL TAKSDVYSFVVLVELLTR - KKIIFISVPR - DESLBFEEFDK - VBNLRLISDRIEkfveegriFDMLDPK1le - RGDV - PK - MKVEVEMRLOELRT
30698255.Q - STDFEASHTAPQGT - QYDVPYHDF - RL TAKSDVYSFVVLVELLTR - KKIIFISVPR - DESLBFEEFDK - VBNLRLISDRIEkfveegriFDMLDPK1le - RGDV - PK - MKVEVEMRLOELRT
18400282.P - TESSHISTAPQGT - QYDVPYHDF - RL TAKSDVYSFVVLVELLTR - KKIIFISVPR - DESLBFEEFDK - VBNLRLISDRIEkfveegriFDMLDPK1le - RGDV - PK - MKVEVEMRLOELRT
30682087.P - TESSHISTAPQGT - QYDVPYHDF - RL TAKSDVYSFVVLVELLTR - KKIIFISVPR - DESLBFEEFDK - VBNLRLISDRIEkfveegriFDMLDPK1le - RGDV - PK - MKVEVEMRLOELRT
15241606.P - SASQHHTVTTVKGTS - QYDVPYHDF - RL TAKSDVYSFVVLVELLTR - KKIIFISVPR - DESLBFEEFDK - VBNLRLISDRIEkfveegriFDMLDPK1le - RGDV - PK - MKVEVEMRLOELRT
15241605.P - SASQHHTVTTVKGTS - QYDVPYHDF - RL TAKSDVYSFVVLVELLTR - KKIIFISVPR - DESLBFEEFDK - VBNLRLISDRIEkfveegriFDMLDPK1le - RGDV - PK - MKVEVEMRLOELRT
AK071644.Q - PTTLNQHHTVTTVKGTS - QYDVPYHDF - RL TAKSDVYSFVVLVELLTR - KKIIFISVPR - DESLBFEEFDK - VBNLRLISDRIEkfveegriFDMLDPK1le - RGDV - PK - MKVEVEMRLOELRT
15241880.P - NNGGCVTTVVKGS - QYDVPYHDF - RL TAKSDVYSFVVLVELLTR - KKIIFISVPR - DESLBFEEFDK - VBNLRLISDRIEkfveegriFDMLDPK1le - RGDV - PK - MKVEVEMRLOELRT
152229329.P - NNGGCVTTVVKGS - QYDVPYHDF - RL TAKSDVYSFVVLVELLTR - KKIIFISVPR - DESLBFEEFDK - VBNLRLISDRIEkfveegriFDMLDPK1le - RGDV - PK - MKVEVEMRLOELRT
15230520.P - TLDHHHTVTTVKGTS - QYDVPYHDF - RL TAKSDVYSFVVLVELLTR - KKIIFISVPR - DESLBFEEFDK - VBNLRLISDRIEkfveegriFDMLDPK1le - RGDV - PK - MKVEVEMRLOELRT
AK099791.Q - PTMDHHHTVTTVKGTS - QYDVPYHDF - RL TAKSDVYSFVVLVELLTR - KKIIFISVPR - DESLBFEEFDK - VBNLRLISDRIEkfveegriFDMLDPK1le - RGDV - PK - MKVEVEMRLOELRT
AK101775.Q - PSMDDHHHTVTTVKGTS - QYDVPYHDF - RL TAKSDVYSFVVLVELLTR - KKIIFISVPR - DESLBFEEFDK - VBNLRLISDRIEkfveegriFDMLDPK1le - RGDV - PK - MKVEVEMRLOELRT
61820011.Q - PVNDNHHHTVTTVKGTS - QYDVPYHDF - RL TAKSDVYSFVVLVELLTR - KKIIFISVPR - DESLBFEEFDK - VBNLRLISDRIEkfveegriFDMLDPK1le - RGDV - PK - MKVEVEMRLOELRT
50010003.Q - PDIDTAHHTVTTVKGTS - QYDVPYHDF - RL TAKSDVYSFVVLVELLTR - KKIIFISVPR - DESLBFEEFDK - VBNLRLISDRIEkfveegriFDMLDPK1le - RGDV - PK - MKVEVEMRLOELRT
AK065965.Q - PDIIDTAHHTVTTVKGTS - QYDVPYHDF - RL TAKSDVYSFVVLVELLTR - KKIIFISVPR - DESLBFEEFDK - VBNLRLISDRIEkfveegriFDMLDPK1le - RGDV - PK - MKVEVEMRLOELRT
15239630.Q - SLDQHHTVTTVKGTS - QYDVPYHDF - RL TAKSDVYSFVVLVELLTR - KKIIFISVPR - DESLBFEEFDK - VBNLRLISDRIEkfveegriFDMLDPK1le - RGDV - PK - MKVEVEMRLOELRT
15237872.P - CIDEHHHTVTTVKGTS - QYDVPYHDF - RL TAKSDVYSFVVLVELLTR - KKIIFISVPR - DESLBFEEFDK - VBNLRLISDRIEkfveegriFDMLDPK1le - RGDV - PK - MKVEVEMRLOELRT
14630007.Q - PSLEQHHTVTTVKGTS - QYDVPYHDF - RL TAKSDVYSFVVLVELLTR - KKIIFISVPR - DESLBFEEFDK - VBNLRLISDRIEkfveegriFDMLDPK1le - RGDV - PK - MKVEVEMRLOELRT
30190023.Q - PGCMQHHTVTTVKGTS - QYDVPYHDF - RL TAKSDVYSFVVLVELLTR - KKIIFISVPR - DESLBFEEFDK - VBNLRLISDRIEkfveegriFDMLDPK1le - RGDV - PK - MKVEVEMRLOELRT
15240228.P - PMDPEHHTVTTVKGTS - QYDVPYHDF - RL TAKSDVYSFVVLVELLTR - KKIIFISVPR - DESLBFEEFDK - VBNLRLISDRIEkfveegriFDMLDPK1le - RGDV - PK - MKVEVEMRLOELRT

AK100700.Q EAMKSEKGEGGKH HTPS - PLENDKTIDIDFVILLEIVSG RPIITSLYEV EPMKELMLWAVADED
 18396600.P KVQGVGSRSGEGKGT SISD EKIDIDIDFVILLEIVSG RPIITSLYEV EPMKELMLWAVADED
 15223744.P FSLTEPEIYNNLCEFOVGA ESPS NEDGEKDDVYCFVILLIQTCKVIAASSELGS EPLCENSL RDEP
 30678025.P KVGEEERPQAKKCRSNPD R EKIDIDIDFVILLEIVSG RPIITSLYEV EPMKELMLWAVADED
 18424704.P EATRINTTEIAKSWSRNS R LED P VSAR EPLAERDELADESE
 15241340.P 11c1AK1HGIYENLQLRLRC R KKAKREDDVYCFVILLIQTCKVIAASSELGS EPLCENSL RDEP
 15234944.P AFGQNVFSTAVKGS CNDPYPYFRR QLNDKSDVYCFVILLIQTCKVIAASSELGS EPLCENSL RDEP
 15226565.P AFGQNVFSTAVKGS CNDPYPYFRR QLNDKSDVYCFVILLIQTCKVIAASSELGS EPLCENSL RDEP
 15227790.P NODNEISNCSINNGTGYLDPYFYLQT HKLTKEDVYAFVLLFRA RPRAIDYLPH EBNVNAEWAMQWKRK
 15225078.P DLDQHNVSTAVKGS CNDPYPYFYLTR QLNDKSDVYCFVILLIQTCKVIAASSELGS EPLCENSL RDEP
 AK102834.Q PPLDHNVSTAVKGS CNDPYPYFYLTR QLNDKSDVYCFVILLIQTCKVIAASSELGS EPLCENSL RDEP
 AK065956.Q PTLDQHNVSTAVKGS CNDPYPYFYLTR QLNDKSDVYCFVILLIQTCKVIAASSELGS EPLCENSL RDEP
 15221443.P SMHDHNVSTAVKGS CNDPYPYFYLTR QLNDKSDVYCFVILLIQTCKVIAASSELGS EPLCENSL RDEP
 15238498.P EIDQHNVSTAVKGS CNDPYPYFYLTR QLNDKSDVYCFVILLIQTCKVIAASSELGS EPLCENSL RDEP
 15231393.P ELDQHNVSTAVKGS CNDPYPYFYLTR QLNDKSDVYCFVILLIQTCKVIAASSELGS EPLCENSL RDEP
 AK100137.Q PELDKHNVSTAVKGS CNDPYPYFYLTR QLNDKSDVYCFVILLIQTCKVIAASSELGS EPLCENSL RDEP
 49980016.Q PEFDQHNVSTAVKGS CNDPYPYFYLTR QLNDKSDVYCFVILLIQTCKVIAASSELGS EPLCENSL RDEP
 15221377.P PEFDQHNVSTAVKGS CNDPYPYFYLTR QLNDKSDVYCFVILLIQTCKVIAASSELGS EPLCENSL RDEP
 AK065468.Q PELDQHNVSTAVKGS CNDPYPYFYLTR QLNDKSDVYCFVILLIQTCKVIAASSELGS EPLCENSL RDEP
 AK099840.Q PDMDQHNVSTAVKGS CNDPYPYFYLTR QLNDKSDVYCFVILLIQTCKVIAASSELGS EPLCENSL RDEP
 AK102524.Q PSFGECHNVSTAVKGS CNDPYPYFYLTR QLNDKSDVYCFVILLIQTCKVIAASSELGS EPLCENSL RDEP
 AK070172.Q PSTGQHNVSTAVKGS CNDPYPYFYLTR QLNDKSDVYCFVILLIQTCKVIAASSELGS EPLCENSL RDEP
 33330013.Q RGYEDVPSHSOFSSVSYDQPEVQSV LQFSESSDVYCFVILLIQTCKVIAASSELGS EPLCENSL RDEP
 28640019.Q GFDGAAPSHSSCCSISYDQPEVQHL AQLSESSDVYCFVILLIQTCKVIAASSELGS EPLCENSL RDEP
 43850013.Q DRIGGGVGSSRSRTSYDFIDPRMRPS INGSHOSDVYCFVILLIQTCKVIAASSELGS EPLCENSL RDEP
 30688460.P GREDVGTSHSIIHADCFPSLPEVQEF KRSESEKSVAFQHNVSTAVKGS CNDPYPYFYLTR QLNDKSDQNL
 15233069.P LGLLQIAASDHLANRGSS BETI - DVSYSVAFQHNVSTAVKGS CNDPYPYFYLTR QLNDKSDQNL
 23508411.Z MNNNNVNFNTGCTG CNDPYPYFYLTR EI NEOTEIYXPSLNLIELMVKSPATHVKCnncIYSKNEKCPIFYHKKKDHD
 83505619.Q DTIKKCHVSTQHNVSTAVKGS CNDPYPYFYLTR QL SEKSDVYCFVVMELLTIS RPIEKGTY - IVRCPAIDYQDQEY
 AK105683.Q DTEKCHVSTQHNVSTAVKGS CNDPYPYFYLTR QL SEKSDVYCFVVMELLTIS RPIEKGTY - IVRCPAIDYQDQEY
 83601963.Q DTERCHVSTQHNVSTAVKGS CNDPYPYFYLTR QL TEKSDVYCFVVMELLTIS RPIEKGTY - IVRCPAIDYQDQEY
 30699436.P DCTKCHVSTQHNVSTAVKGS CNDPYPYFYLTR QL TEKSDVYCFVVMELLTIS RPIEKGTY - IVRCPAIDYQDQEY
 AK0702642.Q DSEEGFCCHNVSTQHNVSTAVKGS CNDPYPYFYLTR QL TEKSDVYCFVVMELLTIS RPIEKGTY - IVRCPAIDYQDQEY
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 15240547.P DEEKAVHTTQHNVSTAVKGS CNDPYPYFYLTR QL TEKSDVYCFVVMELLTIS RPIEKGTY - IVRCPAIDYQDQEY
 30695748.P DEPKHNVSTAVKGS CNDPYPYFYLTR QL TEKSDVYCFVVMELLTIS RPIEKGTY - IVRCPAIDYQDQEY
 15240244.P GGGVQRHVTTHVNGT CNDPYPYFYLTR RL TEKSDVYCFVVMELLTIS RPIEKGTY - IVRCPAIDYQDQEY
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 15222211.P MEGISPOHVTWVNGT CNDPYPYFYLTR QL TDKSDVYCFVVMELLTIS RPIEKGTY - IVRCPAIDYQDQEY
 30679474.P DEEDVPKRVSTVWVNGT CNDPYPYFYLTR KL TDKSDVYCFVVMELLTIS RPIEKGTY - IVRCPAIDYQDQEY
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 AK101189.Q VDGHSVSSVSTVWVNGT CNDPYPYFYLTR QL TEKSDVYCFVVMELLTIS RPIEKGTY - IVRCPAIDYQDQEY
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 30696478.P VDKHANRPTCCTG CNDPYPYFYLTR K T
 18417765.P VLRDMTSGEGT CNDPYPYFYLTR NKTPMSDIDSYFVLLLELTIS I H P
 30694632.P DGSCVCFEVNIDFCTG CNDPYPYFYLTR QLNDKSDVYCFVVMELLTIS RPIEKGTY - IVRCPAIDYQDQEY
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 30688287.P RKFQMLVILKEC CNV IQQLVLMLELTIS Q SS
 30688291.P KNHPKATHDSCSCEGCAEC CNV IQQLVLMLELTIS Q SS
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 44400021.Q NAACHHISTVWVNGT CNDPYPYFYLTR FQDILVTDVYCFVLLLELTIS QPFPVNDPDT - VHLNWVRQKIDKGS
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 83510478.Q QVTEFLPHILPLIFRY XRN YHISEKSDVYCFVVMELLTIS RPPVIPIDESV - SINHIGEVHQSLSLHG
 83571573.Q INEAQCHISVTAAGT CNDPYPYFYLTR SRDLSRSDVYCFVVMELLTIS RPIEKGTY - IVRCPAIDYQDQEY
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 AK105685.Q LNVAQCHITATAAGT CNDPYPYFYLTR CRITISSDVFVSECFVVMELLTIS RPIEKGTY - IVRCPAIDYQDQEY
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 83571535.Q HSDSQTTHISASIAAGS CNDPYPYFYLTR CRITESSDVFVSECFVVMELLTIS RPIEKGTY - IVRCPAIDYQDQEY
 83571523.Q THISAVAGAS CNDPYPYFYLTR CRITESSDVFVSECFVVMELLTIS RPIEKGTY - IVRCPAIDYQDQEY
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 83571544.Q HSDSQTTHISATAGS CNDPYPYFYLTR CRITESSDVFVSECFVVMELLTIS RPIEKGTY - IVRCPAIDYQDQEY
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 83500238.q SYDNTITHVSINAIVGTCGYDPYQAT MQPTKSDVYSFVVVLLELITG PIAHLLHEP
 37400008.q KCDGDTTHVSINTLVGTCGYDPYQAT LQVSEKPTKSDVYSFVVVLLELITG PISITWQRLARG
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 15233490.p EDDIHSVTVTAVGTCGYDPYQAT FKNLKEKSDVYSFVVVLLELITG KREAVILTDGG
 15221237.p TESRHSVSTLVAGTCGYDLPLCFT NGEKNEKSDIYVSFVVVLLELITG KVIKVISQ
 15224743.p LEGDSVSVTEACTCGYDLPEHYKQ QOFSKSDVYSFVVVLLELITG OPVISERSRT
 15224738.p LDGNNODTTAVAGTCGYDLPEHYKQ QKLSKSDIYVSFVVVLLELITG OPVIARSRIT
 15233796.p VEGCSQVISTVVAAGTCGYDLPEHYKQ RONNEKSDVYSFVVVLLELITG KPAWINISRT
 15224735.p VEGCSQVISTVVAAGTCGYDLPEHYKQ RQMNKSDVYSSFVVVLLELITG OPAIASSKTE
 15231428.p VGDENEHISTVVAAGTCGYDLPEHYKQ SRLEMEKSDVYSFVVVLLELITG QHADIRV
 15231424.p VGDENEHISTVVAAGTCGYDLPEHYKQ SRLEMEKSDVYSFVVVLLELITG QHADIRV
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 15231426.p LGEESEASVSTVVAAGTCGYDLPEHYKQ CRLAEKSDVYSFVVVLLELITG QHADIRV
 15231406.p LGEESEASVSTVVAAGTCGYDLPEHYKQ SRLEMEKSDVYSFVVVLLELITG QHADIRV
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 15238493.p VGGESHVSTVVAAGTCGYDLPEHYKQ DRSEKSDVYSFVVVLLELITG QHADIRV
 22327979.p GEGESEOSVTAGTCGYDLPECYIS CRLAEKSDVYSFVVVLLELITG DSHICQWGFONNRG
 152328490.p VRGQPSDSTFVAGTCGYDLPEHYKQ SRLAKSDVYSSFVVVLLELITG OPVINSQ
 152328489.p IGGEPHISLSTVVAAGTCGYDLPEHYKQ TRLPKSKSDVYSFVVVLLELITG OPVIDQSR
 15227017.p IGENERKNSVTVVAAGTCGYDLPEHYKQ NWLTEKSDVYSFVVVLLELITG RPIQOSRE
 15227015.p TEHEPHISVTVVAAGTCGYDLPEHYKQ NWLTEKSDVYSFVVVLLELITG RPIQOSRE
 15227018.p VGVESHVSTVVAAGTCGYDLPEHYKQ NWLTEKSDVYSSFVVVLLELITG OPVIDQVR
 15227007.p VGGESHVSTVVAAGTCGYDLPEHYKQ NREKSEKSDVYSFVVVLLELITG RPIQOTRE
 15220696.p PIGEHEHVSTVVAAGTCGYDLPEHYKQ QRLSEKSDVYSSFVVVLLELITG KLVLDTRER
 15237096.p VGESEPHISVTVVAAGTCGYDLPEHYKQ NWLTEKSDVYSFVVVLLELITG OPVIDQTR
 15222435.p LIQNEAQOPIVVAAGTCGYDLPEHYKQ SLLSKSDVYSSFVVVLLELITG DQVIDLSRE
 15225949.p VGSQEHISVTVVAAGTCGYDLPEHYKQ NWLTEKSDVYSFVVVLLELITG QVIEQSR
 15225938.p VGSQEHISVTVVAAGTCGYDLPEHYKQ NWLTEKSDVYSSFVVVLLELITG QVIEQSR
 15222436.p IGDHEPHISVTVVAAGTCGYDLPEHYKQ NREKSEKSDVYSSFVVVLLELITG QVIEQSR
 15237871.p VGEESHVSTVVAAGTCGYDLPEHYKQ YRLEKSDVYSSFVVVLLELITG QVIEQSR
 15228118.p LEGERPDRIVVAGTCGYDLPEHYKQ NWLTEKSDVYSSFVVVLLELITG QVIEQSR
 15217993.p DIQASNKIXVVKGRDPEYHDXYFN SRLNQASDIYVSFVVVLLELITN QLVINQSR
 15232537.p IGEHEPHISVTVVAAGTCGYDLPEHYKQ NWLTEKSDVYSSFVVVLLELITN QLVINQSR
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 15218050.p IGEHEPHISVTVVAAGTCGYDLPEHYKQ NWLTEKSDVYSSFVVVLLELITN RPIVLDKSRE
 15218047.p IGEHEPHISVTVVAAGTCGYDLPEHYKQ NWLTEKSDVYSSFVVVLLELITN RPIVLDKSRE
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 15218052.p IDGECHVSTVVAAGTCGYDLPEHYKQ NWLSEKSDVYSSFVVVLLELITN QPVIDTKE
 15218033.p LGECHVSTVVAAGTCGYDLPEHYKQ NWLSEKSDVYSSFVVVLLELITN QPVIDTKE
 15221649.p EGCKDQCVTARMPCGMPDPEYKQ GKLQDOSIYAFVVVLLELITN RPIVLDLQGP
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 37600021.q VPECLTPRDAVAGTCGYMDPBYQQT CTIREKSDYVALIIIQLLQCT KPNGLIV
 15224775.p APDNVTLYRNSVLAAGTCGYMDPBYQQT CTIREKSDYAFVIIIQLLQTA RNDSGIVP
 22327904.p APDSVTVPRNSIIAAGTCGYMDPBYQQT CTIREKSDYAFVIIIQLLQTA RNPNGLLF
 15220138.p VADSFSNSIIAAGTCGYMDPBYQQT CMLVKSDYPSFVVVLQIITA MPVGLSH
 15218594.p VADITYSNHIIAAGTCGYMDPBYQQT CMLVKSDYPSFVVVLQIITA QPAMGLH
 AK069368.q MDELTVTYRMDAAGTCGYMDPBYQQT CMLVTKSDVYALIIQLLQIITA KDMGLAY
 15239834.p VANIVTQPHMSAAGTCGYMDPBYQQT CMLVTKSDIISLIMLQLIITA KFPMGLH
 15239600.p IADSVTQFHMSAAGTCGYMDPBYQQT CMLUTKSDVYSLVIIIQLLQIITA KFPMGLH
 AK101023.q VADSVTQYRSLATAAGTCGYMDPBYQQT CMLVTKSDVYSLVIIIQLLQIITA KFPMGLH
 AK068947.q AAAEATQYRSLATAAGTCGYMDPBYQQT CMLVTKSDIYSLVIIIQLLQIITA KFPMGLH
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 37690007.q VADNVTYRSLATAAGTCGYMDPBYQQT CMLVTKSDVYSSFVMLLQIITA KFPMGLH
 AK069654.q VADSVTQCHMSAAGTCGYMDPBYQQT CMLVTKSDVYSSFVMLLQIITA KFPMGLH
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 30699374.p VAENVTOCHVSTAGTCGYMDPBYQQT CMLVTKSDVYSLVIIIQLLQIITA KFPMGLH
 15219360.p VAENVTOCHVSTAGTCGYMDPBYQQT CMLVTKSDVYSLVIIIQLLQIITA KFPMGLH
 15225643.p IDDIATYRSLATAAGTCGYMDPBYQQT CMLVTKSDIYSFVVVLQIITA KFPMGLH
 15238484.p VADITATYRSLATAAGTCGYMDPBYQQT CMLVTKSDIYSFVVVLQIITA KFPMGLH
 15238488.p QSD TKDVMFVVVLLELITG R-NW HGLLKAQSMNQTS
 30697549.p PSHASHTVEREDGPVCTPFYDPEYQQT GVTPESDIYAFVIIIQLLQTA RSAMGLAH
 15241414.p LSTKFTBPKTSPVGTCTGYDPYQQT CRISSEKSDVYAFVIIIQLLQTA KFPMGLH
 15234952.p LSTKFTBPKTSPVGTCTGYDPYQQT CRISSEKSDIYSFVVVLQIITA KFPMGLH
 15242080.p DVSSRTYRSLATAAGTCGYDPYQQT CILIPKSDVYSLVIIIQLLQIITA KFPMGLH
 AK099675.q LSTTRT1KDFDQVTLVYMDPBYQQT COVSTKSDYIYLQVIIIQLLQIITA KFPMGLH
 33520007.p GGSSSTVYKKDPAAGTCGYDPYQQT COVSTKSDYIYLQVIIIQLLQIITA KFPMGLH
 AK065683.p DQYLMSTKNTIAVGTCTGYDPYQQT CVOVMSKSDVYALIVIQLLQIITA KFPMGLH
 24500004.q SEGVALSRPAVYDPEYQQT CEMTPDVFVYSSFVIIIQLLQIITA KFPMGLH
 56530022.q NTTITPYHNCQKGTYIYMNDPBYQQT CELTACDVFVYSSFVIIIQLLQIITA KFPMGLH
 32180011.q NDTGTPNHEIIVKGSFYMDFPEFKNT CILUPQSDVFLDIIQLLQIITA KFPMGLH
 44640010.q KYNTGNNTSCTSYDPEYQQT CELARCPDVYSSFVIIIQLLQIITA KFPMGLH
 AK109040.q AAATTRAYETTPKCTPAYMDPBYQQT CELTARSDVYSSFVIIIQLLQIITA KFPMGLH
 AK065488.p STVSTSFYPTTNGTPYQQT CELTARSDVYSSFVIIIQLLQIITA KFPMGLH
 67270013.q QPGTCPPNTERMLSYMDPBYQQT CELTILSDVYSSFVIIIQLLQIITA KFPMGLH

AK069682.q -OLGHTFPPLNTARLTYMPPEEIT - GPTTIVSDVYSLGVILLRLTG-MPPLILSE - KVAEALGSDSLHLLI - DKAAGDIPYIIEAKQOLAJI - GLSCHGM - TRKGDPD - LLNEVIVIVIIEPLT
 AK069675.q STNTTNTLPRMVPYTPYPMDFPDLST - GGTPOSDDVSYSPIVVLLRLTG-KPPLVGLK - IVEDAMEKGDLNSVT - DTSVGRPLPHLTIECOLANLDRCPCL - SRRKRPPD - LSCEGVAVIAVEAR
 AK073764.q SVTGSDAH-TSKPCTPYMPDEFFAT - GEDTPOSDDVSYSPIVVLLRLTG-IMRLLR - TVRPAFLNDYDLSQSV - DTHAAGDPLVWBLVOLBIAODCTEL - SKORRPPD - LEIDVNVBLVPLCPMK
 AK102556.q - MEDAADAPEVRSR - KELTTRSDIYSPVSPCIVILQLLTC-KOAAGLPS - EVRKALRMSSGKLWSDL - DPTAGEBPLPEVARVSR - ELGCKSCSEA - aSPEL - L - TETTVRDLE-LHL
 30690163.p - PNNGSK-EVTPVCTVYLPEPPEASS - GELTRSDIYSPVSPCIVILQLLTC-RPALARSN - EVKXALONGTLDNLN - DPAEGDIPVFAQABRLRABRCET - DNAAGDIPVARGKLNALNVAIRCRCKK - NPMNRPD - LAVLVFLDORMKA
 18408768.p - PIGDLDLSDIYHVPIEHEFVVS - RENTILESDIYAPCIVILLQLLTC-RPVGSI - DVKALENNDNIISAVL - DPAEGDIPVFAQABRLRABRCET - DNAAGDIPVARGKLNALNVAIRCRCKK - NPMNRPD - LAVLVFLDORMKA
 AK061135.q QDQACITCCRRTNEMTGYMPBEVFT - GELTRSDIYSPVSPCIVILQLLTC-QVRPAFLMDKADAVHSVL - DAAGDIPVFAQABRLRABRCSSL - EBRKRPPA - ITCDAEWRSLDIDM
 30683822.p GLQSGSSSPTT-SLOCIEFYFAPEAYIA - CCAOSDMSPDFSPCIVILQLLTC-RPALARSN - EESLWVHAWVPRQ - DSKRVEELPDPER - DTSVGRPLPHLTIECOLANLDRCPCL - SRRKRPPD - LSCEGVAVIAVEAR
 AK099755.q DGVTSCTSPPARMGCTE-YFAPEAYIA - OKASLSDVFSPPCIVILQLLTC-RPALARSN - PPAAGESLVLWAAP - RLRDSRLVVAEPLDPAOLGRSP - DTSVGRPLPHLTIECOLANLDRCPCL - SRRKRPPD - LSCEGVAVIAVEAR
 30686316.p - VGGSATRCAMVCTGYMPAEVTVY - GEVSARVDDVAFVSPCIVILQLLTC-KEAVVRLST - ESSSDSCKLWVPLFEE - SFKETDKEeLRLKNIIDPGRCDYDPMVKAELGRACQK - NAQIQRPS - MRVIVVVALSLTFLS
 83561461.q - VGGTSMPTGTVVTFVCTGYMPAEVPSV - CYARYGODVSPCIVILQLLTC-KEAVVRLST - ALNSPdke1RLDLPKEDGDPIDSPSIIKLLTOKAVKQVCKQ - DEKIKRPS - MRVIVVVALSLTFLS
 83503313.q - RSDEDECLATLVLTCYPLPEVSL - LHTRSDIYSPVSPCIVILQLLTC-LPLVWDN - KEANKTKSLSISIMRK - AFKPEDLESSLETIVDPY - DLSLPLRPE - MRVIVM-LIACIHM
 AK073720.q VKSTDAAEVSPVTFVCTYLAPELTD - GLATRSDIYSPVSPCIVILQLLTC-RPALARSN - VMLSAKNCrnrsymMg - LKDCIDPNDYDPLDPCVMAWLAQKOCVE - DTSVGRPLPHLTIECOLANLDRCPCL - SRRKRPPD - LSCEGVAVIAVEAR
 15218078.p - KTGGEISVTVVCTYLAPELSD - GLATRSDIYSPVSPCIVILQLLTC-RPALARSN - Mlavlknspsdmssm - RLRDSRLVVAEPLDPAOLGRSP - DTSVGRPLPHLTIECOLANLDRCPCL - SRRKRPPD - LSCEGVAVIAVEAR
 835144331.q HNAATTIIVCTOYIPEYIAD - GLVTRSDMDVFAVSPCIVILQLLTC-REAVSVD - DSGBLLWADADEREF - RGRERERLBarvaamMDfALEEQTCPPGSVASVSVVAKACIHR - DPAKRPD - MBDIIFASLGSVILQG
 44940012.q PAAM - DAAATSDVFAVSPCIVILQLLTC-RPALARSN - GVEIGMRTEIRVPL - DAGgdakraak1RKWMPDPI - GPGYVDFGAALSLGARACTEE - DAAFRPK - MBDIIFASLGSVILQG
 15224061.p - EDFVLTKEVCTYLAPELDEH - GLVTRSDMDVFAVSPCIVILQLLTC-RPALARSN - BIDEKAIDELING - RLLPCELTFSVLERVVDCIKK - DHINRPS - DMDPNMSLKEIKA
 15232204.p - TNELATEEIE - IE - SSLSLSPASDIFAYGIVVMEVSLC-QPDMLLGL - QEVETTSLTSQETFV - SEWS1rlrrl1dake1lrvFMDST - GESYVSDASBEIASIA - DAEERPS - AVEIAAERVEFLVLD
 15226133.p - EGDDLLCQTTRVCTOYIPEYIEN - GVTTRSDMDVFAVSPCIVILQLLTC-RPALARSN - KKECBEVYEMICK - NSVLLGGENENVY - DTSVGRPLPHLTIECOLANLDRCPCL - SRRKRPPD - LSCEGVAVIAVEAR
 29420004.q GAAAAAACLTREVVCTOYIPEYIEN - GLITTRSDMDVFAVSPCIVILQLLTC-RPALARSN - GENCEAHLWNSSAE - ALVDDGGGEdagsvVRAFMDP - PRGGDQVPLDLMAMAVSLARCVAR - OPAARPA - MBDIVFVSLAAVYVG
 36380005.q AgDDSIAIMTHTVVCTYLAPELDEH - GLISLSPADDFVFAVSPCIVILQLLTC-RPALARSN - DDGDNMILWQAADDL - VDGGDAWFKLRFAPD - PLOGYPIGIVASAVAALVRCVAR - BEBRPDS - MBDIVFVSLAAVYVG
 AK111267.q PPSGATRAWRGIVVCKSPCYAEPFERS - GQATKKSDDVYSPVSPCIVILQLLTC-RPALARSN - REATCAQT - GHRLTAAVGPGSIGEG - KLADEVVERGQGDVDPV - EAATVAAVLAIRCRVSD - GTGKRPD - MBDIVFVSLAAVYVG
 AK066397.q SATVGCSPSNRAVNGCSPCYVPHLIRS - GQATKKSDDVYSPVSPCIVILQLLTC-RPALARSN - CRDT - GRLTAAVGPMSEG - KVADVVERGQGDVDPV - EAATVAAVLAIRCRVSD - SPGKRPD - MBDIVFVSLAAVYVG
 30692836.p TSTMSPRERQVWIMCSPCYTDEPMLRT - GIAASKMDMYGCPVSVVLELVS - ERGEMLVISTASL - HeildaengdigeekvQFLDPRSLRGSIDLBEVKVMTLVRVAFCLRS - PPSLIRPS - ASQVQVQNLKKIP
 15235071.p PPTMSPRERQVWIMCSPCYTDEPMLRT - GIAASKMDMYGCPVSVVLELVS - KGPASAEER - SSVDISEKDVRQFEDR - RLSLIDEDKTMVLSAVVCISS - KUSLIRPS - AAQAVDULIKEI
 AK099892.q - SPPPSRPPGKPSAR - RAT - STP - SS-SAPASSPS - P1STASACFCSPR - SPARRPFPGYPARMAAPAGATSR - RGCCRPS - GRRgtwtgsptagw
 9030002.q SAAVRPRSSAHMCGSPCYVDEPMLRS - GQVTRSDIYSPVSPCIVILQLLTC-MCPAAEAE - GRLTTAALDARLRL - SCAACdarmLVIDP - GSAVADAGEASAVASLAASCVG - NPSLIRPS - MDPVIVRALEQAH
 AK071309.q VHCPCRPLSPSALAVLIVSPCYVDEPMLRS - GQVTRSDIYSPVSPCIVILQLLTC-TOPF - RDGMILTAAVAPKPK - GAAGADVERLIERP - GCAQYNAEAAATVAAALAAICGD - NPSLIRPS - MADVWRLLKEPAQ
 49310002.q EETKTWTKNLVTLYIPEYIPEYI - KETSNKSDIDFISGCAVMLDIL - PTGRERSTIKM - EFTNQVQGKWKNRQ - TRRNGLPLFAYCQVCKTCIEIAKCIIEI - DRNENRPS - IIRTRINQINEKED
 49310004.q KDKTWTKNLVTLYIPEYIPEYI - KETSNKSDIDFISGCAVMLDIL - PTGRERST - EFTDQVQVSNWKTTRUE - TGRNGLPLFAYCQVCKTCIEIAKCIIEI - DRNENRPS - IIRTRINQINEKED
 34867776.m KLAQTTVMTSIVTTAYMAPEALR - GELTRSDIYSPVSPCIVILQLLTC-LAAWDNR - EPOLLDLIDKEEDE - DKEKTIIDETCDKMSDADPSVAAEMVSASVSOCHIE - KGNRNPD - IAKVQOILLOETS
 23943898.m RLAQTTVMTSIVTTAYMAPEALR - GELTRSDIYSPVSPCIVILQLLTC-LAAWDNR - EPOLLDLIDKEEDE - DEEKTIIDEDY-DEKMSDADPSVAAEMVSASVSOCHIE - KGNRNPD - IAKVQOILLOETS
 IRAK4.h KFAQTTVMTSIVTTAYMAPEALR - GELTRSDIYSPVSPCIVILQLLTC-LAAWDNR - EPOLLDLIDKEEDE - DEEKTIEDY-DEKMSDADPSVAAEMVSASVSOCHIE - KGNRNPD - IAKVQOILLOETS
 31207565.i SSRITTSICCTNAYMAPEAVR - GQVSPALDIDFAPCIVVAEVTC - EPLAVDEKE - SRSPIDFAGYVYCR - AEGRDGLLvdrrraayvGRDGEARWKCEAGKRLLEIAKCKNG - EKWRP - SGALADAVICIQ
 31205959.i VQDSATWWSVSYCTRYIPEYIPEYI - RELSHDTDIFYSPVSPCIVILQLLTC-LRAYERD - EKHLKDYIARAVQ - MHTVQLADQSLPMDAEALMCCEKLLQVGRVCFAD - DEKIRPD - MVCVWCMILSaa
 17136894.f - KSLDAVVEVNRVFTKYL - PEGRNF - ROLSTGVDVYSPVSPCIVILQLLTC-RPALARSN - ENEIKKNNLDDVVKQ - WRNRMELLEKHLAAKMGKELDMCMAEHLA - DEKDP - DMDP
 25145082.w EAMEKHPJIAS - KQTTLAYIPEFITS - KIITTRSDIYSPVSPCIVILQLLTC-RPALARSN - RTRGLVEYCVNKE - AHRKIPWReifIDRRAP - PEGEEKSFIDALIEVLAGANN - DRKWRP - MSQIVEWLCKNSI
 34865724.m EQQSSTINMGSGRHLWLYMPEYIPEYI - GRTTHTRSDIYSPVSPCIVILQLLTC-CRVVLDLDPK - VEGKRLGDSLScsflIDRIPCPNFSKSLSLAQCVAT - RAKRPP - MDEVLVNLILESTQP
 31540305.m EQQSSTINMGSGRHLWLYMPEYIPEYI - GRTTRSDIYSPVSPCIVILQLLTC-CRVVLDLDPK - HQLQLRDLLREL - MEKRGLDScsflIDRIPCPNFSKSLSLAQCVAT - RAKRPP - MDEVLVNLILESTQP
 IRAK3.h LEHQSCITNTMSSSKHLYMPEYIPEYI - CKLSHKTDTYSPVSPCIVILQLLTC-CRVVLDLDPK - HQLQLRDLLREL - MEKRGLDScsflIDRIPCPNFSKSLSLAQCVAT - RAKRPP - MDEVLVNLILESTQP
 34858329.m KKTYYTVMRHTLFQGASAAYL-EFIRV - GOLTKRDFIFSPCIVILQLLTC-IPAMD - KDRSPVYKVLKDLLSE - IPSNTSSVhsrktsmgkvvvk - IccgkHLERAGLALLPEACATWAVSVCIRASLEEVRS - MACVEEFLQROES
 31540303.m KKTYYTVMRHTLFQGASAAYL-EFIRV - GOLTKRDFIFSPCIVILQLLTC-IPAMD - RSPVYKVLKDLLSE - NTSSVCSRTKSMGKAVWKEIICREVEK - RAGLILPE - ACBEEAVATAVSVC
 IRAK2.h NKRSKYDMMT - LILTSAYAYPEPDIRV - GOLTKRDFIFSPCIVILQLLTC-IPAMD - SPVYI - DLLI-BIPSTS-TSLSRK - RAKRPP - VENVMKAEICOKY
 6680419.m AQSSTTVAR - TSVRLTAYLPEYIPEYI - GQAVTDIDFSPVSPCIVILQLLTC-RPALARSN - TQGAKTIVLKDIE - DEAESEA - GvtlkstqpllwgvatdawaapiaciykkhLDSRPGCP - OGLGLALA - JLCGCCHR - RAKRPP - PSMIVVYKRLBLOQ
 34881758.m PSQSTVARTCTVRLTAYLPEYIPEYI - GQAVTDIDFSPVSPCIVILQLLTC-RPALARSN - TQGAKTIVLKDIE - DEAESEV - GvtlkstqpllwgvatdawaapiaciykkhLDSRPGCP - OGLGLALA - JLCGCCHR - RAKRPP - MTQWVYKRLCLOQ
 IRAK1.h SPSQSMSVAR - DTWGRTLAYLPEYIPEYI - GQAVTDIDFSPVSPCIVILQLLTC-RPALARSN - HGARTKYLKDLVEEE - AEEAGVALrstqstlqaglaadaWaapiaciykkhLDSRPGCP - OGLGLGQ - CCCIHR - RAKRPP - MTQWVYKRLCLOQ